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**SATEX SEED CO.**

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**TESTED SEEDS**



**1935**

**SEED AND POULTRY  
SUPPLY ANNUAL**



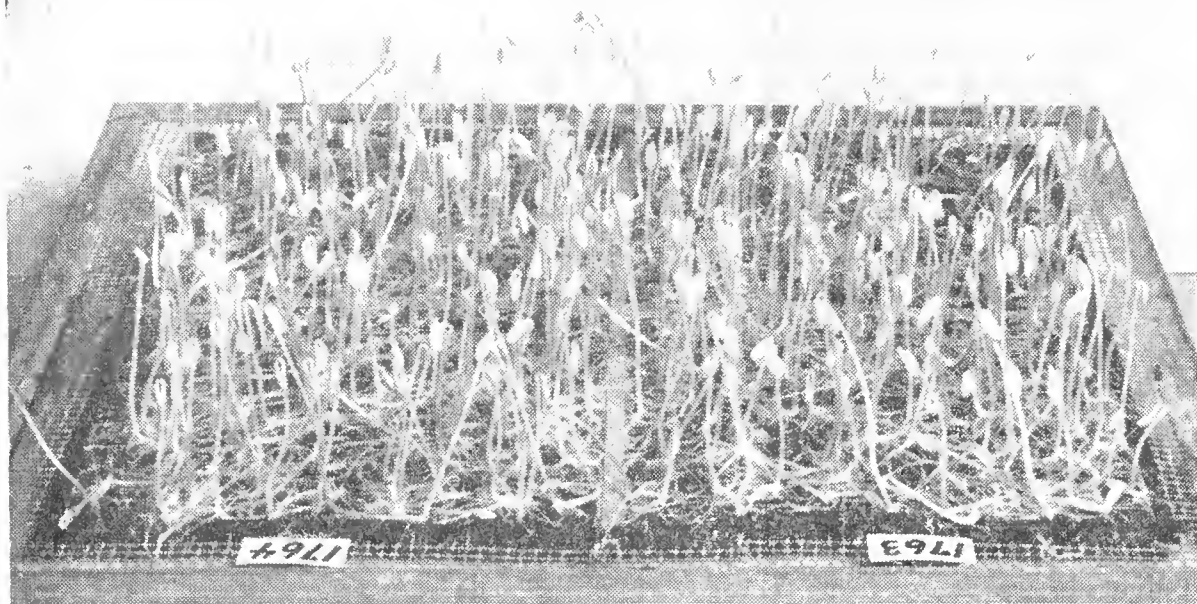
# TESTING SEEDS

## FOR YOUR PROTECTION

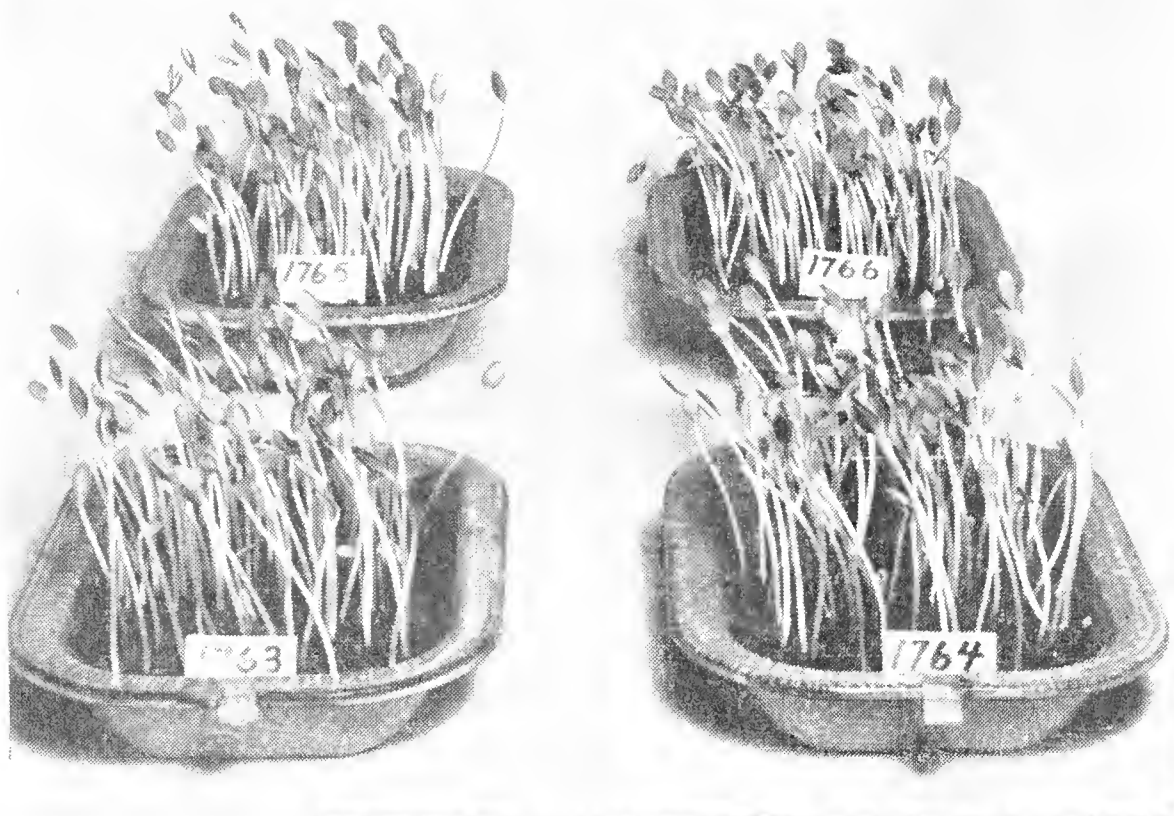
It is the constant endeavor of the Satex Seed Co. to give you the best seeds that grow, not only from a standpoint of germination but purity as well. The vast number of gardeners who, year after year, use Satex Seeds is convincing proof of Satex quality and reliability. Why gamble with commission package seed when you can get Satex Tested Seeds at no extra cost. The photographs will give you some idea of the care we exercise to give you only the BEST.

(1) **Blotter Test**—Each blotter section has 100 indentations.. A seed is placed into each indentation and then placed into an electrically controlled tester. Blotters are kept constantly damp. After a given number of days, sprouts are counted for germination test number one.

(2) **Pan Dirt Test**—Here again one hundred seeds are planted to the proper depth in the dirt in , pans, then moistened and after a given number of days the sprouts are again counted for a check germination test of number one.



2



(3) **Purity Test Grounds**—This plot of ground lies one and one-tenth mile outside the city limits on the Castroville Road and contains nine and one-half acres, which are used exclusively to make purity tests and to produce the flower and vegetable plants listed in this catalog. Not only is every variety of seed listed in this catalog tested for purity, but constant tests are made of other varieties to determine new types that will do well in our southern climate.

Commercial gardeners know and insist on Satex Quality Seeds. If you have never planted our seeds, try them now. You can plant Satex Tested Seeds with confidence.



**VISITORS TO  
TEST GROUNDS  
ARE ALWAYS  
WELCOME**



# HOW TO ORDER BY MAIL

All garden and flower seeds quoted in catalog are postpaid up to the fifth zone. Field Seeds, Bulbs, Poultry Remedies and Supplies, Dog Remedies and Supplies, Bird Remedies and Supplies are quoted F.O.B. San Antonio, Texas. If you wish to have them sent by parcel post send enough to cover same. Insecticides and Fungicides cannot be shipped by parcel post. In large shipments unless you specify way of shipment, we will ship the cheapest way.

**MEXICAN CUSTOMERS**—Add 20c for first pound and 11c for each extra pound to prices, also 15c for registration. We ship up to 20 pounds per package into Mexico.

**YOUR NAME AND ADDRESS**—Be sure that your name and address in full are written very plainly. If you do not receive any goods ordered from us within ten days after the order is sent kindly let us hear from you, and we can then avoid further delay. **We fill all orders the day received,** unless unable to supply same at the time, and will advise you accordingly, so do not hesitate to write us if the goods do not show up.

**CASH WITH ORDER**—The proper way is to send remittance in full to cover order and postage. We send orders C.O.D. only if 25 per cent of the amount of order is enclosed. **Plants are never sent C.O.D.**

**REMITTANCES** should be made by Postoffice Money Order or Bank Draft. On orders up to One Dollar, we will accept clean unused postage stamps. If currency is sent, letter should be registered, and

if local checks are sent they should be certified. We do not accept responsibility for orders, which never reach us.

**PARCEL POST, C.O.D.**—Packages may be sent C.O.D. at an extra expense of 12c up \$5.00, 17c up to \$25.00, 22c up to \$50.00, which amount is added to the order.

**INSURED PARCEL POST**—If customers want their packages sent insured they will kindly add cost to the remittance. **RATE**—Up to \$25.00, 5c; up to \$50.00, 10c.

**POSTAGE** has to be prepaid and customers will kindly add same to their valued orders, as packages cannot be mailed charged collect at destination. This refers to larger quantities than prices quoted postpaid.

**WEIGHT LIMIT**—Packages are subject to a limit of maximum weight in the first, second and third zone of 70 lbs.; in all other zones of 50 lbs.

**ZONE RATES** may be had by applying to your postmaster who will tell you which zone you are in, with reference to San Antonio.,

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**NON-WARRANTY**—Note. There are many contingencies to be encountered in growing plants from seeds and in setting out plants that are dependent on the weather and other conditions over which we have no control, that success in planting is not altogether dependent on the seed or plant. We send out only seed that have been tested for germination, and which we believe will produce the kind of variety and plant represented; but: **SATEX SEED CO. gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, plants or trees they send out, and will in no way be responsible for the crop. If the purchaser does not accept seeds on these terms, they are at once to be returned.**

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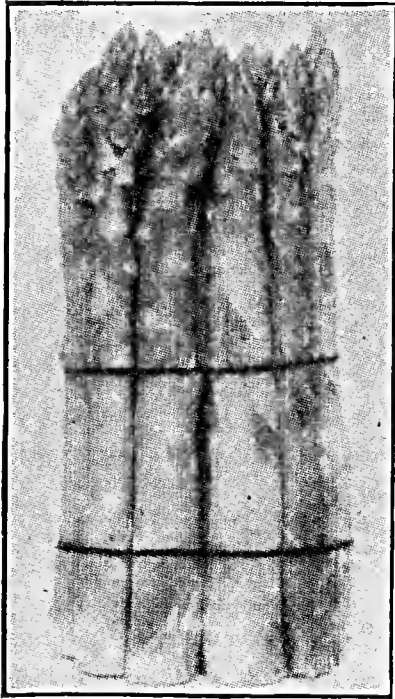
## PARCEL POST RATES

Zones							
Lbs.	1 & 2	3rd	4th	5th	6th	7th	8th
1	\$0.10	\$0.10	\$0.11	\$0.12	\$0.13	\$0.15	\$0.16
2	.10	.11	.14	.17	.19	.23	.26
3	.11	.13	.17	.22	.26	.32	.37
4	.12	.15	.21	.27	.33	.41	.48
5	.13	.17	.24	.33	.40	.50	.59
6	.14	.19	.28	.38	.47	.59	.70
7	.15	.21	.31	.43	.54	.68	.81
8	.16	.23	.35	.49	.61	.77	.92
9	.17	.25	.38	.54	.68	.86	1.03
10	.18	.27	.42	.59	.75	.95	1.14
11	.19	.29	.45	.64	.82	1.04	1.25
12	.21	.31	.49	.70	.89	1.13	1.36
13	.22	.33	.52	.75	.96	1.22	1.47
14	.23	.35	.56	.80	1.03	1.31	1.58
15	.24	.37	.59	.86	1.10	1.40	1.69
16	.25	.39	.63	.91	1.17	1.49	1.80
17	.26	.41	.66	.96	1.24	1.58	1.91
18	.27	.43	.70	1.02	1.31	1.67	2.02
19	.28	.45	.73	1.07	1.38	1.76	2.13
20	.29	.47	.77	1.12	1.45	1.85	2.24
21	.30	.49	.80	1.17	1.52	1.94	2.35
22	.32	.51	.84	1.23	1.59	2.03	2.46
23	.33	.53	.87	1.28	1.66	2.12	2.57
24	.34	.55	.91	1.33	1.73	2.21	2.68
25	.35	.57	.94	1.39	1.80	2.30	2.79
26	.36	.59	.98	1.44	1.87	2.39	2.90
27	.37	.61	1.01	1.49	1.94	2.48	3.01
28	.38	.63	1.05	1.55	2.01	2.57	3.12

Zones							
Lbs.	1 & 2	3rd	4th	5th	6th	7th	8th
29	.39	.65	1.08	1.60	2.08	2.66	3.23
30	.40	.67	1.12	1.65	2.15	2.75	3.34
31	.41	.69	1.15	1.70	2.22	2.84	3.45
32	.43	.71	1.19	1.76	2.29	2.93	3.56
33	.44	.73	1.22	1.81	2.36	3.02	3.67
34	.45	.75	1.26	1.86	2.43	3.11	3.78
35	.46	.77	1.29	1.92	2.50	3.20	3.89
36	.47	.79	1.33	1.97	2.57	3.29	4.00
37	.48	.81	1.36	2.02	2.64	3.38	4.11
38	.49	.83	1.40	2.08	2.71	3.47	4.22
39	.50	.85	1.43	2.13	2.78	3.56	4.33
40	.51	.87	1.47	2.18	2.85	3.65	4.44
41	.52	.89	1.50	2.23	2.92	3.74	4.55
42	.54	.91	1.54	2.29	2.99	3.83	4.66
43	.55	.93	1.57	2.34	3.06	3.92	4.77
44	.56	.95	1.61	2.39	3.13	4.01	4.88
45	.57	.97	1.64	2.45	3.20	4.10	4.99
46	.58	.99	1.68	2.50	3.27	4.19	5.10
47	.59	1.01	1.71	2.55	3.34	4.28	5.21
48	.60	1.03	1.75	2.61	3.41	4.37	5.32
49	.61	1.05	1.78	2.66	3.48	4.46	5.43
50	.62	1.07	1.82	2.71	3.55	4.55	5.54
55	.68	1.17	Zones are based on the distance you are from the shipping point, San Antonio, Texas. Up to 150 miles from San Antonio is the 1st and 2nd zones, which take the same rate; 150 to 300 miles is the 3rd zone; 300 to 600 is the 4th; 600 to 1000 is the 5th; 1000 to 1400 is the 6th; 1400 to 1800 is the 7th; over 1800 miles is the 8th zone.				
60	.73	1.27					
65	.79	1.37					
70	.84	1.47					

# REDUCE THE COST OF LIVING

By planting a garden with SATEX True-To-Type Quality Tested Seeds. Grow your own delicious vegetables. Eat what you can and can what you can't, so as to supply your family with vegetables for the entire year.



Martha Washington

## Asparagus

2 oz. to 100 feet of drill

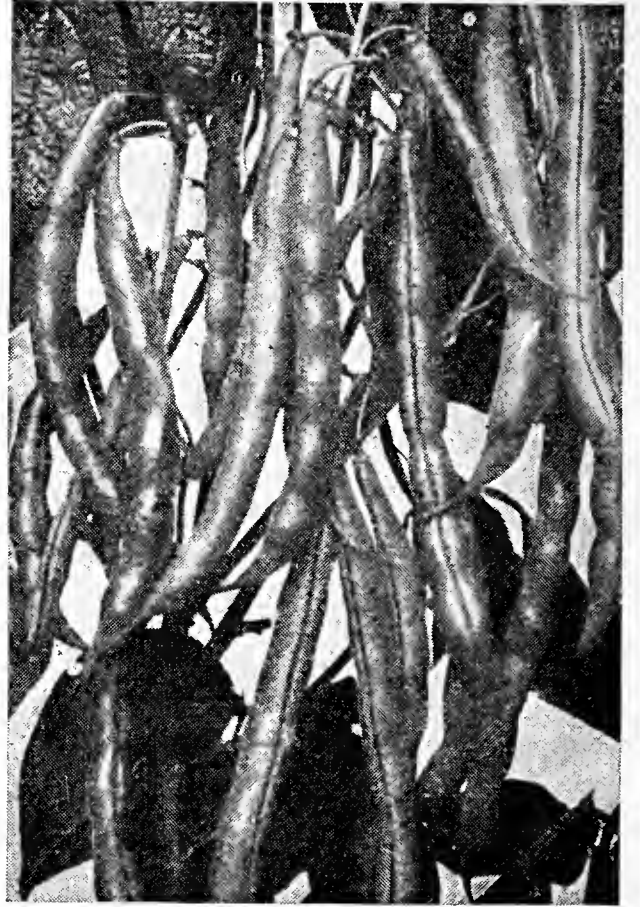
**MARTHA WASHINGTON** — Light green, heavy yielding early producing, large clear stalks of excellent quality. Very early. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.

## Green Podded Bush Beans

1 lb. to 100-ft. row

**BURPHEE'S STRINGLESS GREEN POD**—The pods are medium green, 5 to 6 inches long, cylindrical, larger than those of the Red Valentine, but not quite as fleshy, of equally high quality and remain crisp and tender longer. Absolutely stringless. Pkt. 10c; lb. 30c, postpaid; 10 lbs. \$1.75, not postpaid.

**GIANT STRINGLESS GREEN POD**—Another exceptionally fine bean for home or market, perfectly stringless, pods longer than Burphee's Stringless, strong, vigorous grower, and a continuous bearer of delicious beans for weeks. Pkt. 10c; lb. 30c, postpaid; 10 lbs. \$1.75, not postpaid.



Stringless Green Pod

## Bush Wax Beans

**IMPROVED GOLDEN WAX**—One of the best beans in cultivation. Pods are long, nearly straight, broad and flat, and golden yellow; seed white, more or less

covered with two shades of purplish red. Pkt. 10c; pound, 30c, postpaid. 10 lbs. \$2.00, not postpaid.

### PROLIFIC BLACK WAX

Early; pods are round, about five inches long, fleshy, brittle and stringless, deep yellow in color and attractive. A standard sort. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.90, not postpaid.

**PENCIL POD WAX**—Early and very productive. Pods large, 5 to 6 inches long, round, straight and creaseback, strictly stringless, free from fiber, fleshy and brittle; of high-

**KENTUCKY WONDER**—An excellent green-podded variety; enormously productive, the long pods hanging in great clusters along the entire vine. They cook very tender and melting. Seed dark brown. Pkt., 10c; lb., 30c, postpaid.

**KENTUCKY WONDER (WAX)**—One of the earliest of the pole wax sorts. Pods eight to nine inches long, thick, decidedly creaseback; very fleshy, brittle, but stringy. Attractive and fair quality. Color light yellow. Pkt., 10c; lb., 35c, postpaid.

## Bush Lima Beans

**HENDERSON'S DWARF LIMA**—The earliest variety of dwarf Lima Beans, fully two weeks earlier than any other variety. Plants about 16 inches high and very prolific. Beans are small. Recommended to anyone desiring early Lima Beans. Pkt., 10c; lb., 35c, postpaid. 10 lbs., \$2.00, not postpaid.

**SPECKLED BUSH LIMA**—This variety is generally known as "calico or speckled" butter bean. The beans are of fine quality, either green-shelled or dry. It is very prolific and does well in the driest weather. The seed is sort of a brownish color. Pkt., 10c; lb., 35c, postpaid.

## Pole Lima Beans

**CAROLINA OR SIEVA**—Beans small and white on the order of Henderson Bush Lima. Plant of large growth, very early, vigorous and productive. Pkt., 10c; lb., 35c, postpaid.

**POLE SPECKLED LIMA**—This fine Butter Bean is better adapted for the wants of the Southern farmer than any other variety. It is a certain and abundant cropper. The vines are strong growers and cling well to the poles or trellis. Bear early and late. Both pods and beans are larger than the old white Carolina or Sieva Butter Bean. The beans are speckled in color, white splotched with red but are of the very highest quality, both in the green and dry state. Pkt., 10c; lb., 35c, postpaid.

**BEAN CULTURE**—Beans are not difficult to germinate if you will observe the following rules. First water your ground and when the soil is workable, plant the seed about 1 inch in depth, packing the soil after planting. Do not water the seed until the seed have sprouted and the plants are about 1 inch or more tall. Watering beans just after planting generally rots the bean, especially if the ground is too cold or hot. Never cultivate beans while the plant is wet as this causes the plant to develop rust.

# FREE

With every order of  
**\$1.00**

Garden Seed in ounces and packets, we will send you FREE 25c worth of Garden or Flower Seed in packets of your own selection. In other words, order \$1.25 worth of Garden or Flower Seed in packets and ounces and send \$1.00 with your order.

## Notice

We wish it distinctly understood that this free offer applies only to seeds in packets and ounces, and not for seeds by weight (over one ounce).

est quality: color very clear yellow. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$2.00, not postpaid.

## Pole Beans

½ lb. to 100-ft. row

**IDEAL MARKET OR BLACK-SEEDED POLE BEAN.** This bean is acknowledged to be the best pole bean in existence. It yields better than all other varieties and is very thrifty and extremely prolific. The pods are thick, stringless, meaty, tender and delicious. Pkt., 10c; lb., 30c, postpaid.

**STRIPED CREASEBACK**—A hardy and very productive green podded cornfield bean. The vines are sturdy and of good climbing habit, with small-medium, deep green leaves. The pods are long, about 6 inches, very cylindrical or completely rounded. Large pkt., 10c; 1 lb., 30c, postpaid.





Detroit Dark Red

## Garden Beets

1 oz. to 50-ft. row

**CROSBY'S EGYPTIAN**—We have an unequalled strain of this superb, extra early sort. A flattened globe shape; skin very dark red, flesh a trifle lighter in color and slightly zoned; tops small.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**EXTRA EARLY ECLIPSE**—A fine early table beet, top-shaped or tapering, globe shaped. Flesh deep crimson, zoned with pink. Crisp and sweet.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid.

**DETROIT DARK RED TURNIP**—Roots roundish, smooth; dark red; flesh bright red, zoned with lighter; crisp, tender, sweet, a good keeper.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid.

**EARLY BLOOD TURNIP**

—A standard medium early variety of excellent quality, also good for summer and fall use. The flesh is deep red, zoned with lighter

shade; sweet, crisp and tender; nearly round.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**SWISS CHARD OR SPINACH BEET**—No other garden vegetable will produce more nutritious food from a small space than Swiss Chard. Of rapid growth. Foliage and leaf-stalks used same as asparagus or spinach.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**LARGE-RIBBED WHITE**—Large, smooth leaves of thick texture grown mostly for the heavy main ribs, which are prepared like Asparagus. The green succulent foliage is used like Spinach. An old standard variety which still is grown also quite extensively for its pearly white stalks.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

## Mangel Wurzel Beets

1 oz. to 100-ft. row

**GIANT FEEDING SUGAR OR HALF SUGAR MANGEL**—A beet which is superior to Mangels for stock feeding purposes, as it is more nutritious, having a large amount of sugar. It is oval in shape and grows partly out of the ground. It is of large size and yields enormous crops.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c, postpaid.

**IMPROVED MAMMOTH LONG RED**—The largest of all the Mangels and the heaviest cropper. Skin is red, flesh white zoned with red. This variety produces a larger amount of good feed than any other beet, and is recommended as superior to all others.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c, postpaid.

## Broccoli

1 oz. to produce 2000 plants

**CALABREZE GREEN SPROUTING**—This is a distinct variety grown by Italian market-gardeners for Italian trade only. The plant forms a large solid head which remains green. After this head is cut off, a number of smooth sprouts develop from the leaf-axes, each sprout terminating in a small head about one inch in diameter. Bunched and sold as a second crop. Sow seed in frames early in spring and market in June and July.

Pkt., 5c; oz., 40c; ¼ lb., \$1.10; lb., \$3.50, postpaid.

## Cabbage

1 oz. to produce 2000 plants

**VOLGA, OR RUSSIAN**—A new medium sized sort, with round, solid heads, which are deep through. It is extremely hardy.

Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75, postpaid.

**RED ROCK**—The largest and surest heading red cabbage, round, solid and dark red, medium to long stem.

Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.00, postpaid.

**EARLY JERSEY WAKEFIELD**—The most widely known and popular extra early variety. Heads are broad cone shaped and very solid.

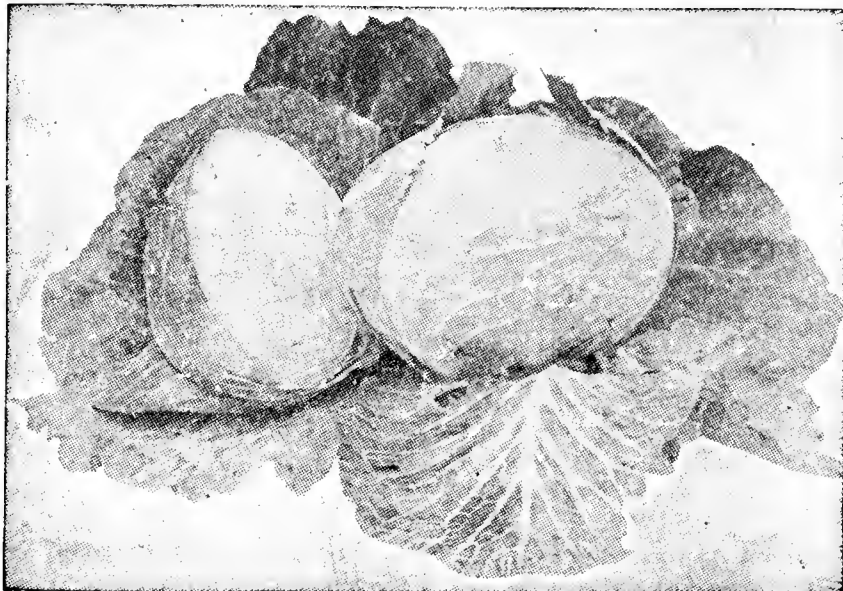
Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.25, postpaid.

**DRUMHEAD SAVOY**—Heads round, compact and solid; leaves numerous, deep green and coarsely crimped.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75, postpaid.

**EARLY DRUMHEAD**—We recommend this sort for markets that require a very large and deep head. Plant large, with few outside leaves, stem of medium length. A sure heading variety of excellent quality. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

**CHARLESTON WAKEFIELD**—About one week later than Early Jersey Wakefield, but the conical heads are fully one-half larger. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.



Volga or Russian

**STEIN'S EARLY FLAT DUTCH**—An early and excellent type of Early Flat Dutch, with a medium stem. Heads round, flat and solid. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25, postpaid.

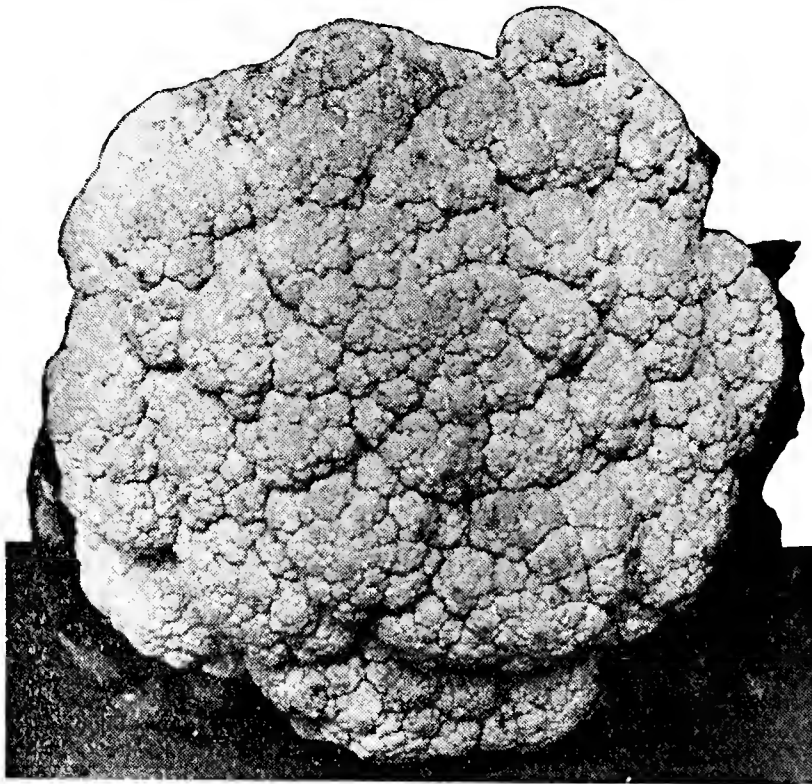
**COPENHAGEN MARKET**—Very fine; stem short, heads large, round and solid, with few outer leaves of an upright growth. Nearly as early as Jersey Wakefield. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid.

**GLORY OF ENKHUIZEN**—A dependable variety heading right after Copenhagen Market. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50, postpaid.

**CHINESE CABBAGE (Pe Tsai)**—Sometimes called Celery Cabbage; resembles Cos Lettuce as much as cabbage, though with a decided cabbage flavor. Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$3.50, postpaid.

## Cauliflower

1 oz. to produce 2000 plants



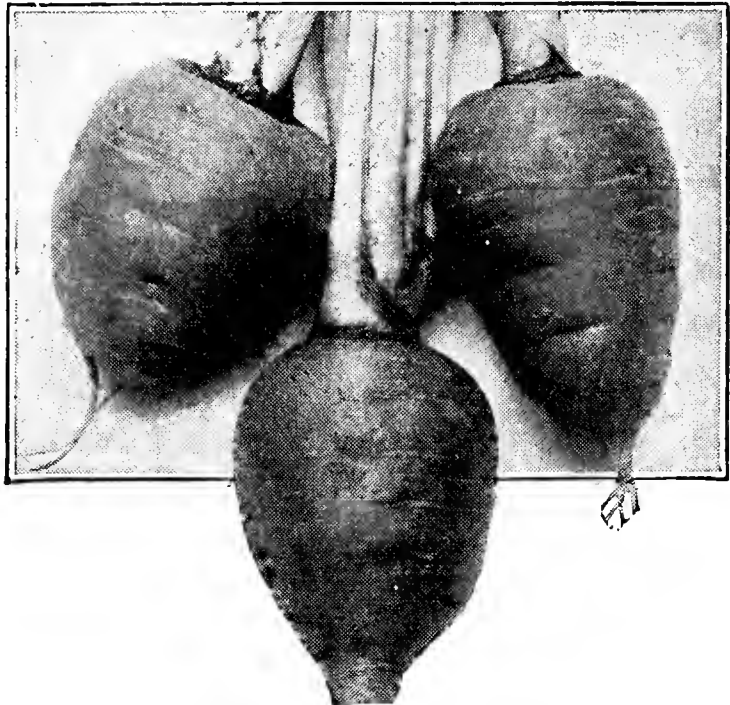
**WHITE WONDER**—We believe this to be the best variety in existence, about 7 days earlier than Early Snowball. It is early, of dwarf compact growth and sure to produce fine heads. Very much depends on the quality of Cauliflower seed. We handle only the best Danish-grown seed from a well known, reputable grower, which we confidently recommend. Pkt., 20c; oz., \$2.00; ¼ lb., \$6.00; lb., \$20.00, postpaid.

**EARLY SNOWBALL**—Popular extra early strain, of dwarf, compact growth. Every plant will make a fine solid head of good size, under favorable circumstances. Pkt., 10c; ¼ oz., 50c; oz., \$2.00; ¼ lb., \$5.00; lb., \$15.00, postpaid.



## Carrots

1 oz. to 100-ft. row



Oxheart

**ORANGE DANVERS HALF LONG**—Broad shouldered, cylindrical, admirable in color. Always a favorite because reliable and attractive in form, color and weight. Most popular sort.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.

**OXHEART or GUERANDE**—One of the most popular and best croppers among the short carrots. The shape is particularly desirable for heavy soil. The true type is about four and one-half inches long and three and one-half inches thick at shoulder. It tapers slightly to the bottom, and is very stump-rooted.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**CHANTENAY**—One of the best carrots for all purposes. Roots about six inches long, blunt pointed, smooth, fine grained, sweet, a heavy yielder.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.

## Celery

$\frac{1}{4}$  oz. to 100-ft. row



Golden Self-Blanching

**GOLDEN SELF-BLANCHING**—The best market variety especially for early summer. The plant is naturally golden-yellow both stem and leaves, but needs to be blanched to make it brittle and fit for table use. Forms a rather small bunch.

Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00, postpaid.

## Collards

1 oz. to 100-ft. row

**GEORGIA SOUTHERN**—Plant 2 to 3 feet high, forming a cluster of tender undulated leaves at the top of its rather long stem; used as greens.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

## Sweet Corn

1 lb. to 100-ft. row

**EXTRA EARLY ADAMS**—This is not a Sugar Corn, but is earlier. The ears are short, 12-rowed, and while in condition for roasting cannot be told from Sugar Corn. It will stand earlier planting than Sweet Corn and is a favorite wherever worms work badly on early corn.

Pkt., 10c; lb., 30c, postpaid.

**GOLDEN BANTAM**—Early; golden yellow in color and of highest quality. Ears 6 to 7 inches long, 8-rowed, bearing from 2 to 4 ears to a stalk.

Pkt., 10c; lb., 35c, postpaid.

**COUNTRY GENTLEMAN**—An especially fine quality corn, cob small, white and densely covered with long slender white grains without row formation.

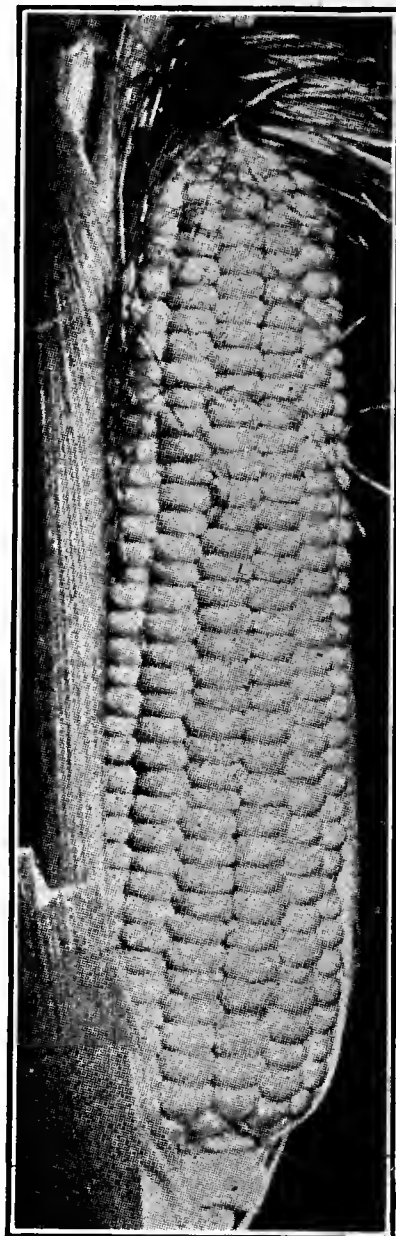
Pkt., 10c; lb., 35c, postpaid.

**TRUCKERS FAVORITE**—A splendid early white corn, coming in directly after Adams Early but much larger. Has a deep white soft grain.

Pkt., 10c; lb., 30c, postpaid.

**STOWELL'S EVERGREEN**—A standard main crop variety, much used for the home garden, market, and canning. Hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling.

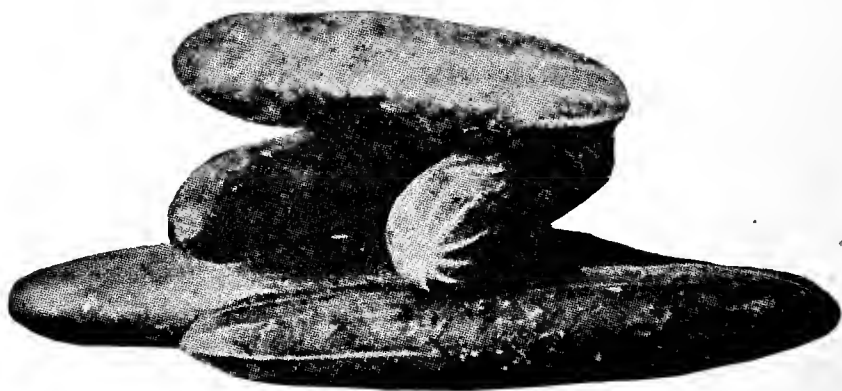
Pkt., 10c; lb., 35c, postpaid.



Golden Bantam

## Cucumbers

1 oz. to 100-ft. row



**EARLY FORTUNE**—Early, good dark color and prolific. Fruits average about 10 inches.

Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.00, postpaid.

**ARLINGTON WHITE SPINE**—One of the most popular White Spine sorts. The fruits are very uniform, averaging 7 to 8 inches. Extra early and very prolific.

Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00, postpaid.

**EXTRA LONG WHITE SPINE or EVERGREEN**—A fine strain; smooth, frequently 10 inches long; round, handsome, very regular.

Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.25, postpaid.

**IMPROVED CHICAGO PICKLING**—Meets the most exacting requirements of critical pickle makers. Vines healthy and very productive. Fruit the right size, shape, color and quality.

Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.00, postpaid.

**KIRBY STAY GREEN**—"Kirby" is the earliest of the White Spine type; fruit 7 to 8 inches long, cylindrical in shape. Color a beautiful dark green from stem to blossom end, which is retained longer than any variety we know of. Vigorous grower, enormous yielder, shipping quality unexcelled, and always commands the highest market price.

Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00, postpaid.

**IMPROVED EARLY WHITE SPINE**—Vines vigorous, fruiting early and abundantly. Fruit good-sized, straight and smooth. Splendid for table use and especially desirable for pickles.

Pkt., 5c; oz., 20c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00, postpaid.

**IMPROVED LONG GREEN**—Uniform in size, straight, smooth; deep green in color; great favorite for slicing.

Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 75c; lb., \$2.25, postpaid.

## Egg Plant

1 oz. to produce 2000 plants

**BLACK BEAUTY**—Rich dark purple, large and symmetrical, maturing a little earlier than our Improved Large Purple, but usually not quite as large. Very desirable for the market, as the fruit holds its color for a long time.

Pkt. 5c; oz. 40c; ¼ lb. \$1.15; lb. \$3.50, postpaid.



Black Beauty

**IMPROVED LARGE PURPLE (Spineless)**—This variety is a genuine favorite both for market and home garden. The plant is spineless, large and spreading, with light green foliage. It usually produces 4 to 6 large, oval fruits of a splendid dark purple color. The vigor and productiveness and fine quality of the fruit makes it a most profitable variety for market gardening.

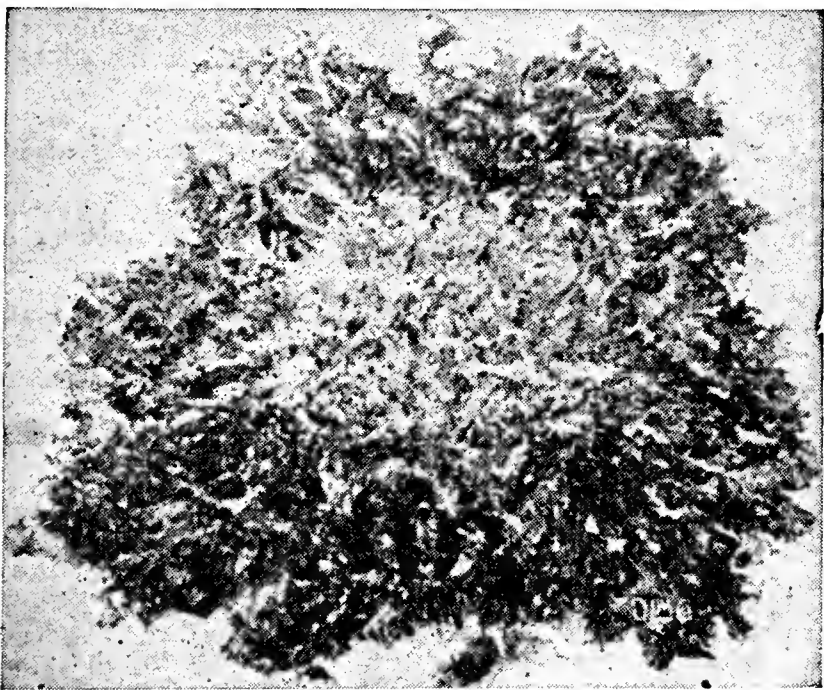
Pkt. 5c; oz. 40c; ¼ lb. \$1.15; lb. \$3.50, postpaid.

**FLORIDA HIGH BUSH**—A wonderful shipping variety and a good keeper. Of strong, upright growth, holding its fruit well above the ground. The fruits are similar in form and size to the New York Purple though not so dark in color, and more club-shaped.

Pkt. 5c; oz. 40c; ¼ lb. \$1.15; lb. \$3.50, postpaid.

## Endive

1 oz. to 100-ft. row



Ever White Curled

**LARGE GREEN CURLED**—Has very curly leaves, the mid-ribs being white and whitish, and the outer edges very much indented and crested. A very attractive plant and one of the best varieties. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c, postpaid.

**EVER WHITE CURLED**—The plants are moderately dense, with divided leaves, which are very light yellowish green in color, even the outer ones being very light. This variety blanches readily to an attractive creamy white. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

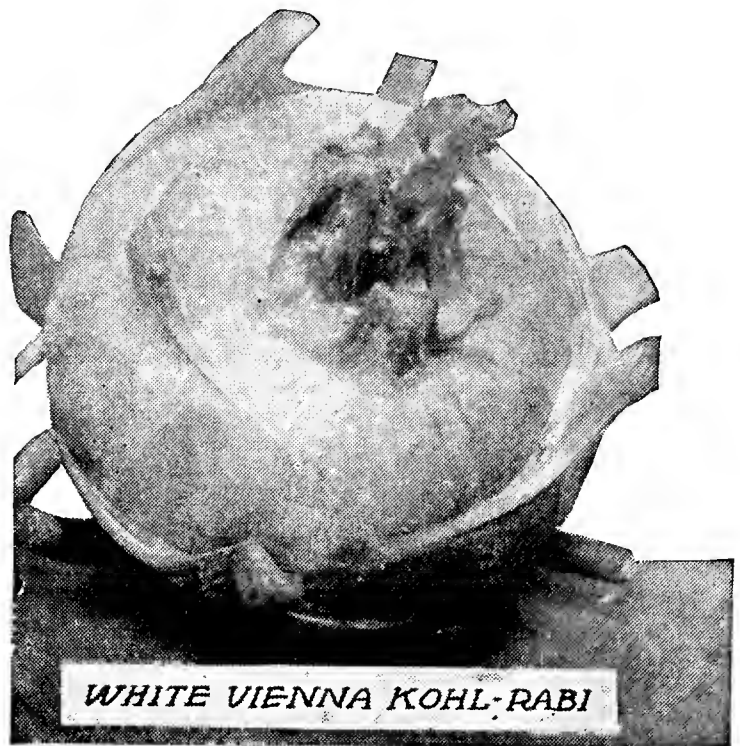
## Kale

1 oz. to 100-ft. row

**DWARF CURLED SCOTCH**—A finely curled, spreading low growing variety, very hardy and much used for greens. This sort, sometimes called "Norfolk", is grown extensively in the South for shipment, and is largely planted for the home garden. The leaves are long and attractive bright green. This sort is often used for garnishing. Pkt., 5c; oz., 8c; ¼ lb., 30c; lb., 90c, postpaid.

## Kohl Rabi

1 oz. to 100-ft. row



WHITE VIENNA KOHL-RABI

**EARLY WHITE VIENNA**—A turnip-like bulb, formed above ground, combining somewhat the flavor of cabbage and turnips. The bulb is large enough to be used in 10 to 12 weeks from time of sowing, and is most tender and deliciously flavored before fully matured. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75, postpaid.

**LARGE GREEN**—This sort is also called Large White. It is hardy, quite late, and used for feeding stock. Bulbs large, weighing 8 to 10 pounds when fully grown; whitish green in color, leaves large and very numerous. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

## Lettuce

½ oz. to 100-ft. row

**EARLY PRIZE HEAD**—Forms a mammoth plant, in which even the outer leaves are crisp and tender; color bright green tinted with brownish red. It is of superb flavor and very hardy. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**ICEBERG**—A large crisp lettuce, always tender. Iceberg stands hot weather remarkably. Give each head 14 inches in row. The color is light green lightly tinged with brown. Try this either for home or market garden. A little larger than Los Angeles and similar. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.

**NEW CHICKEN LETTUCE**—Here is a genuine Lettuce which will yield as much or more chicken or rabbit feed as any "greens" plant. When once cut it starts to grow again. The leaves can be pulled off each stem like a kale. Chicken Lettuce does not make a head, but sends up a stout stalk 3 or 4 feet high, just loaded with leaves. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.



Satex Special New York

**SATEX SPECIAL NEW YORK**—(The standard head Lettuce grown so largely in California and misnamed by the produce trade as Iceberg.) Produces immense heads as solid as a cabbage. The interior is beautifully blanched, creamy-white, crisp, delicious and very tender. A very strong, robust growing variety. The outer leaves are attractive deep green, broad, frilled at edge. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50, postpaid.



## Lettuce—Cont.

**HANSON**—A fine large-heading variety. Leaves curled on the edges, light yellowish-green in color. The head is crisp and brittle and flavor excellent. Stands warm weather extremely well.

Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00, postpaid.

**BIG BOSTON**—50 Days. A popular market variety used largely in the South to grow winter Lettuce for the northern markets. A light-green cabbage variety, slightly tinged with brown in the head. Has a fine golden buttery head.

Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**COS**—Forms oblong heads of large size. Considered by many as superior to any other kind. An entire distinct type of Lettuce. Sometimes called "Romaine Celery Lettuce."

Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

## Mustard

½ oz to 100-ft. row



Large Smooth-Leaved

**LARGE SMOOTH-LEAVED**—30 Days. An excellent sort with very large, light green, plain or comparatively smooth leaves, borne well above the ground. This sort is preferred by many, as it is more easily prepared for the table than the rougher-leaved varieties.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid.

**SOUTHERN GIANT CURLED**—30 Days. Leaves are large, light green with tinge of yellow, much crimped and frilled at edges. Plant is upright and slightly spreading in growth. This variety is highly esteemed in the South for the market, as well as for the home garden on account of its vigorous growth, hardiness and good quality.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

**CHINESE**—Leaves twice the size of White English; sweet and pungent.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid.

**JAPANESE MUSTARD-SPINACH**—Offered by some dealers in the South as TENDERGREEN. A quick growing vegetable of Oriental origin. In Japan it takes the place of Spinach, as it remains tender even in dry weather. It is virtually an all season plant. Withstands extreme summer heat, also resistant to cold weather. The large, oblong leaves are dark green in color with a very small center rib. The leaves are cooked and prepared for table the same as Spinach and Turnip or Mustard Greens. It compares favorably to these greens in eating qualities. Does not make roots like Turnips; only small thin roots, about 2 or 3 inches in length.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

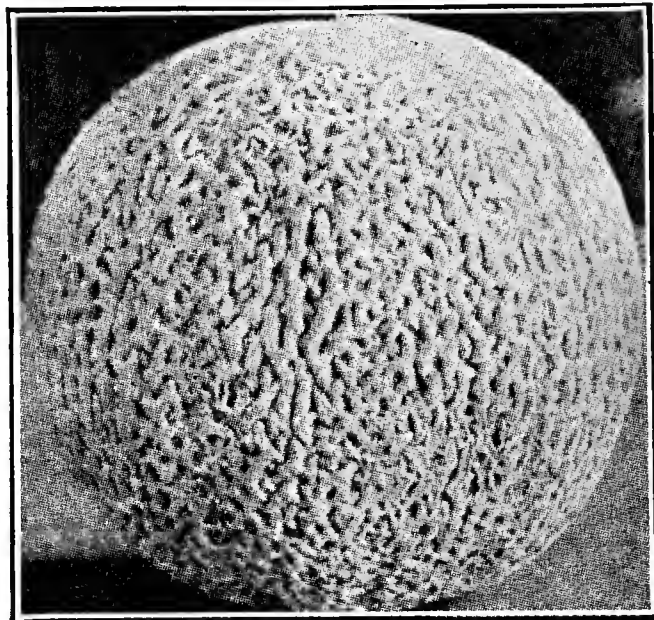
## Muskmelon

½ oz to 100-ft. row

**ROCKY FORD** or **NETTED GEM**—The most largely cultivated variety in use. Grown in great quantities in Colorado. Fruit is slightly oval, finely netted and slightly ribbed. Flesh thick, green, very sweet and of fine quality and high flavor.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 30c; lb., \$1.00, postpaid.

**BURRELL'S SUPERFECTO**—A Muskmelon that has become very popular in the last few years. Almost round, heavily netted, slightly ribbed; a good shipper. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25, postpaid.



Superfecto

**HONEY DEW**—The delicious honey-like flavor of this new melon has met with instantaneous public favor and created a sensation wherever used. The fruit is of large size, weighing 8 to 10 pounds each. The rind is perfectly smooth and cream colored. The flesh is from 1½ to 2 inches thick, light green in color, very sweet and juicy.

Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.50, postpaid.

**CASABA-GOLDEN BEAUTY**—Golden Beauty is bright yellow, about globular, with wrinkled skin, slightly pointed at stem end. The fruits are about 6 to 8 inches in diameter. The flesh is pure white and very thick.

Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75, postpaid.

**BURRELL'S GEM**—An excellent small melon of the Netted Gem Type; somewhat later than that variety and a fourth larger; fruit oblong, distinctly but not deeply ribbed and well netted; flesh deep salmon, of fine quality.

Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**POLLOCK'S No. 25**—Best described as a salmon fleshed Rocky Ford, being identical in every way except color of flesh. It is rapidly superseding the green fleshed variety in the large melon-growing districts of the South and West.

Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**HALE'S BEST**—A new variety of cantaloupe which is grown quite extensively in the Imperial Valley of California. Very early and excellent for shipping. The flesh is salmon and the shape is oval, with heavy netting and prominent ribs. Very sweet.

Pkt., 10c; oz., 20c; ¼ lb., 40c; lb., \$1.25, postpaid.

Not prepaid, 5 lbs. \$5.00.

## Watermelon

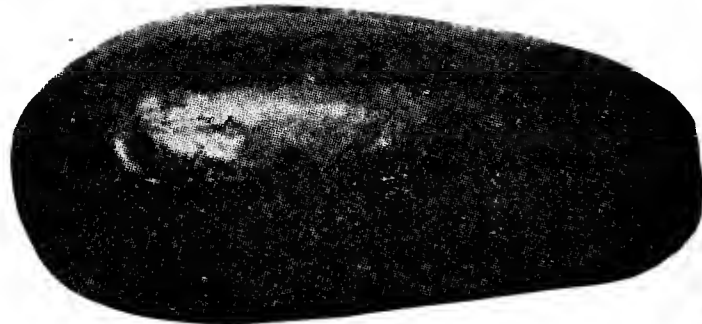
½ oz. to 100-ft. row

**GYPSY** or **GEORGIA RATTLESNAKE**—The melon is long, smooth, distinctly striped with light, mottled and wavy green stripes; flesh bright scarlet, very sugary.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**HALBERT'S HONEY**—Fully equal to Kleckley's Sweet, which it resembles. It is more even in outline, is blunter at end, and skin is of a richer, darker color.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.



New Wonder

**WONDER MELON**—Here is a watermelon that every grower in the South will plant sooner or later. In quality of flavor there is nothing that will compare with it. A large and long melon resembling the Tom Watson. The rind is rather thin, but tough, cutting a big red heart of the finest melon meat you have ever tasted. White seed, with few to the melon.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.



## Watermelon-Cont.

**CUT RED TOM WATSON**—Without a doubt the finest grade of Tom Watson seed ever offered to the grower. The name represents everything that it stands for. The seed has been selected from only the finest and truest-to-type melons and only then from those that CUT RED from rind to rind. Regardless of what kind of melon you have been planting, it will pay you big dividends to plant some of this splendid seed.

Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50, postpaid.

**TOM WATSON SPECIAL**—85 Days. Long, dark green. More tracery on skin than Kleckley Sweet, and longer. Fine variety, cream-brown seed, flesh deep red, finest flavor, no core. Often weighs from 50 to 60 pounds to the melon. One of the most popular shipping melons on the market.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**STONE MOUNTAIN**—A new round watermelon showing slight ribs or lobes like a canteloupe. The color of the smooth skin is light green. The flesh is a uniform beautiful DEEP CRIMSON without any white hearts or stringiness. The average fruit weighs about 45 pounds. Not suited for distance shipping.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**DALE**—This splendid large melon is oblong in shape. The tough skin is a dark green color irregularly striped with lighter green. Flesh is dark red in color, fine grained, sweet and luscious. White seed. An excellent shipper. You will find our strain of this excellent melon to be the best.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**DALE (Special)**—This seed is selected from the finest melons in the field. Every melon being of very heavy weight and true to type. We can recommend this melon to any one desiring the best in Dale Watermelon Seed.

Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00, postpaid.

**KLECKLEY SWEET**—80 Days. A very desirable variety for the home garden or nearby markets. Fruit medium-sized, oval and skin dark green, flesh bright red and sweet. Skin is brittle. It is the very sweet, honey-like flavor that makes it especially distinct from all other varieties.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**FLORIDA FAVORITE**—Fruit long, dark green, mottled and striped with a lighter shade; rind thin but firm.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**ALABAMA SWEET**—80 Days. A very large, long melon of excellent quality; popular in the South, where it is grown extensively for shipping. The color is rather deep green, with dark, irregular striping. The rind is thin, but very tough. The flesh is bright red, fine grained and sweet.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**IRISH GREY**—New. A valuable melon, producing more melons under any condition than any other variety. Also a fine eating melon, and a grand shipper. The red flesh is very sweet and free from stringiness. The rind will not sunburn and will keep in excellent condition long after picking. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

**CITRON FOR PRESERVING**—90 Days. A round, light and dark-striped melon, meat greenish-white, used for preserving only. Seed red and small. Tough rind.

Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**IMPROVED KLONDYKE**—Among the leading shippers in all the melon growing districts of California this wonderful new melon has rightfully earned the reputation of being the best quality shipping melon in existence, and is being grown with equal success in other States regardless of climatic conditions. The melons are oblong in shape, and weigh from 20 to 35 pounds each. The rind is thin but tough, with an attractive deep green color. The flesh of the melon is a rich red. Without doubt one of the sweetest melons grown.

Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.25, postpaid.

## Okra or Gumbo

1 oz. to 50-ft. row

**KARGER'S OKRA**—Tender and very prolific. Extra early, at least two weeks earlier than most varieties. Bushes of uniform low or dwarf growth, pods thickly set and heavy bearing. Pods do not harden or become tough very readily.

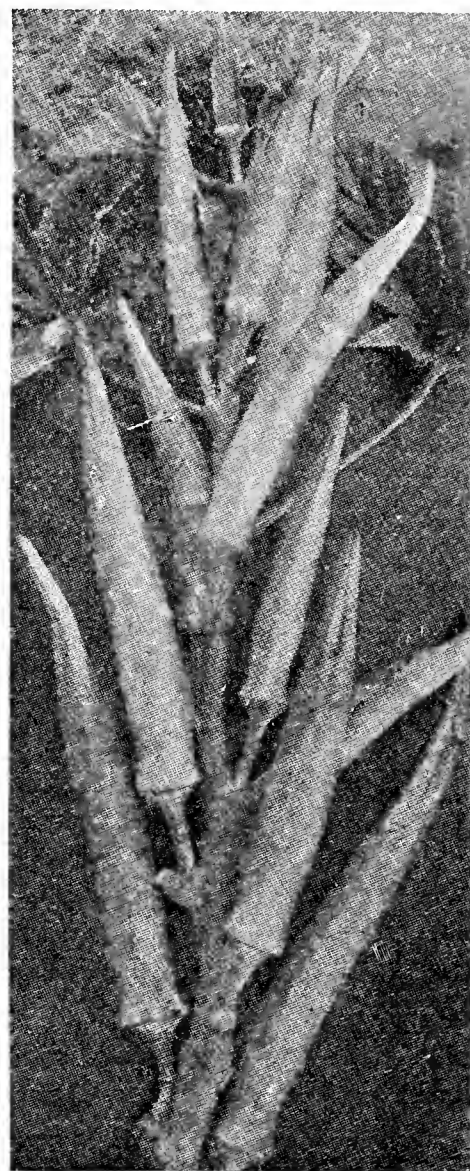
Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c, postpaid.

**WHITE VELVET**—Round, white, smooth pods of extra large size produced in great abundance.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c, postpaid.

**PERKINS MAMMOTH LONG POD**—This variety is about three feet high, very early and productive. The pods are deep green, very long, slender, slightly corrugated, very tender and of good quality. Desirable market as well as home garden sort.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c, postpaid.



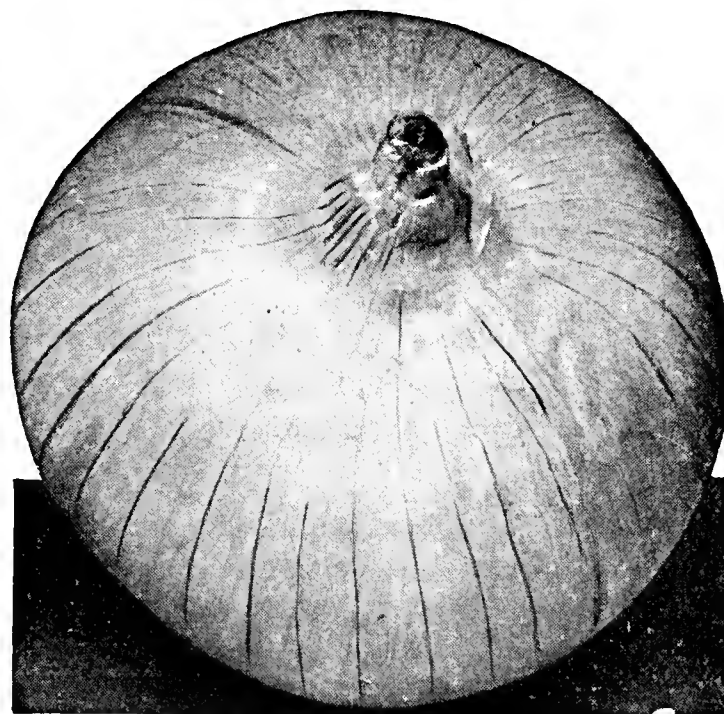
White Velvet

**Fertilize -- It Pays**

(See page 21)

## Onion Seed

1 oz. to 100-ft. row



Crystal White Wax

**WHITE OR YELLOW BERMUDA**—This is the standard variety, and is grown very largely among the large Texas onion growers. It is more hardy, less affected by disease, and more prolific than other onions.

Pkt. 5c; oz. 30c; ¼ lb. 85c; lb. \$2.50, postpaid.

**CRYSTAL WHITE WAX**—This is the waxy white onion seen in our market in the early spring, and it is one of the most beautiful onions on the market. It is absolutely pure white, of the finest flavor, and will always command a premium on the market.

Pkt., 5c; oz., 30c; ¼ lb., 85c; lb., \$2.50, postpaid.

## Onion Sets

**Culture**—Plant 4 inches apart in rows half an inch deep, and 1 foot between the rows, when cultivated by hand. Do not cover the sets entirely. All varieties can be set out in the fall as well as in the spring. One pound plants a 60 foot row.

Red Bottom Sets.....Lb., 30c; Bu., \$4.50  
White Bottom Sets.....Lb., 30c; Bu., 4.50  
Yellow Bottom Sets.....Lb., 35c; Bu., 5.00  
Pounds postpaid, bushels f.o.b. San Antonio.

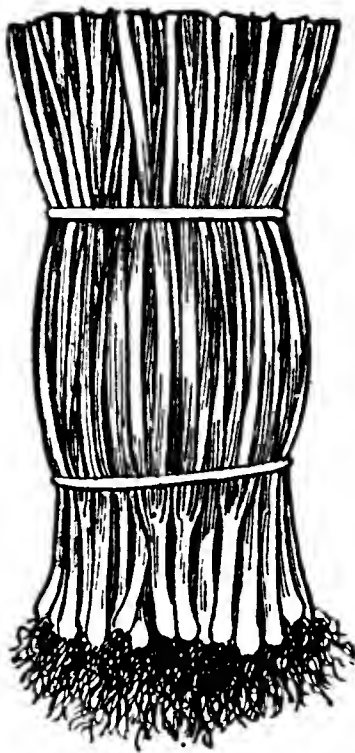


## HOTKAPS

**FOR BIGGER EARLIER CROPS !**

(See page 20 for details)

Per 1000.....Only \$10.00



## Onion Plants

CRYSTAL WHITE WAX or  
YELLOW BERMUDA

100	-----	Postpaid	\$0.25
500	-----	Postpaid	.70
1000	-----	Postpaid	1.15

Onion Plants f.o.b. Encinal,  
Texas.

1000	-----	Per M	\$0.75
6000	-----	Per M	.60

Write for larger quantity prices.

## Tomato Plants

Varieties—John Baer, Earliana,  
June Pink, McGee, and Marglobe.

100	-----	Postpaid	\$0.55
500	-----	Postpaid	1.35
1000	-----	Postpaid	2.10

Tomato Plants f.o.b. San Antonio

1000	-----		\$1.50
5000	-----	Per M	1.40

## Cabbage Plants

Varieties—Early Jersey Wakefield, Charleston Wake-  
field, Stein's Flat Dutch and Copenhagen Market.

100	-----	55c	500	-----	\$1.35	1000	-----	\$2.10
Cabbage Plants f.o.b. San Antonio								
1000	-----	\$1.25	5000	-----	per M	\$1.15		

## Sweet Pepper Plants

Varieties—California Wonder, Worldbeater, Chinese  
Giant.

## Hot Pepper Plants

Varleties—Long Red Cayenne, and Red Chili.

100	-----	75c	500	-----	\$2.50	1000	-----	\$4.00
Pepper Plants f.o.b. San Antonio								
1000	-----	\$3.50	5000	-----	Per M	\$2.50		

## Egg Plants

Varlety—Black Beauty.

100	-----	75c	500	-----	\$3.25	1000	-----	\$5.50
Egg Plants f.o.b. San Antonio								
1000	-----	\$5.00	5000	-----	per M	\$4.75		

NO PLANTS SHIPPED C.O.D.

## Parsley

1 oz. to 100-ft. row

PLAIN or SINGLE—A very hardy variety. The leaves  
are flat and not curled. The best flavored variety.  
Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

CHAMPION MOSS CURLED—A very finely curled  
green and very ornamental.  
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

## Parsnip

1 oz. to 100-ft. row



Hollow Crown

HOLLOW CROWN—An excellent variety for the table.  
The roots are long, with smooth, white skin, uniform in  
shape, tender and of the best quality. The variety is  
easily distinguished by the leaves growing from the  
depression on top of crown of the root.  
Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c, postpaid.

## Garden Peas

1 lb. to 100-ft. row

FIRST AND BEST—One of the earliest tall varieties,  
with smooth, round peas, which ripens almost at one  
time. Grows 2 to 2½ feet high, seed yellow-white, pods  
straight, short and well filled. Quality best of the  
smooth-seeded early varieties.

Pkt. 10c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid

THOMAS LAXTON—Excepting color of foliage and  
pods, in growth this is identical with the Gradus, 2 or 3  
days late, but much more productive.

Pkt., 10c; lb., 35c, postpaid; 10 lbs., \$2.00, not postpaid.

WHITE MARROWFAT—A very heavy yielding late  
variety. Pods large and well filled. The dry peas are of  
large size and excellent for cooking.

Pkt. 10c; lb. 30c, postpaid.

LANDRETH'S EXTRA EARLY—A critical gardener  
wants the best strain as respect earliness, size of pod,  
flavor, uniformity of ripening, vigor and uniformity in  
habit of the plant. All these desirable qualities can be  
found in this pea. This type will produce peas fit for  
table in 44 to 50 days, according to soil and climatic  
conditions of the season of their growth.

Pkt. 10c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid.

BLISS EVERBEARING—An old standard late, main  
crop variety. Height 3 feet. Vine and foliage sturdy and  
strong, dark green; pods usually in pairs, medium  
green 3 inches long, straight and pointed, containing  
4 to 5 light green peas of good quality; matures follow-  
ing Telephone.

Pkt. 10c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid.

LAXTONIAN—A dwarf pea with large, handsome

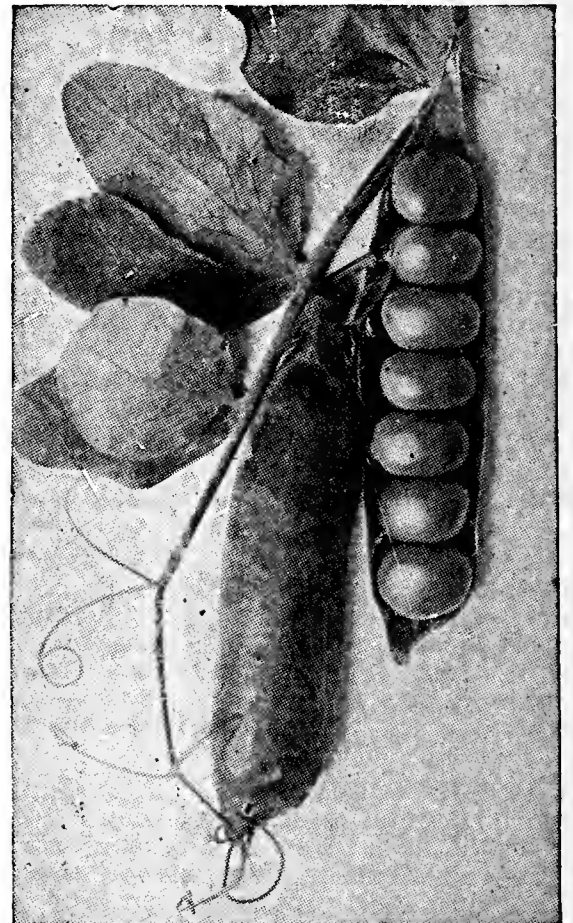
pod. It is slightly  
earlier than Gradus,  
maturing about the  
same time as Tho-  
mas Laxton. Vines  
medium dark green  
and medium heavy  
foliage. Pods 3½ to  
4 inches long slight-  
ly curved. Will bear  
more abundantly at  
top of vines, making  
it easy to pick, very  
heavy yielder, alto-  
gether a fine pea  
for private market  
gardeners. Pkt., 10c;  
lb., 35c, postpaid. 10  
lbs., \$2.00, not post-  
paid.

ALASKA—A blue  
pea of excellent  
quality. The earliest  
of all the blue sorts.  
A desirable early  
pea for market gar-  
deners, growing  
from 2 to 2½ feet,  
and very productive.  
Pkt., 10c; lb., 30c,  
postpaid; 10 lbs.,  
\$1.50, not postpaid.

CANADA FIELD  
—Seed small, white;  
for field culture  
only. Height 4 ft.

Vine moderately stout and medium green; pods light  
green, 2¼ inches long, square ended, six small, light  
green peas in pod; matures with Telephone.

Pkt. 10c; lb. 25c, postpaid.



Thomas Laxton

## Sweet Pepper

½ oz. to 100-ft. row

WORLDBEATER—This is without doubt, the finest  
introduction in peppers in ages. It is a cross between  
Chinese Giant and Ruby King, having the shape of the  
Ruby King, except that it is broader at the pointed end  
and almost the size of the Chinese Giant.

Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$4.50, postpaid.

CHINESE GIANT—Plant dwarf, fruit of mammoth  
size, very broad, but rather short. It is very late and a  
rather shy yielder. Popular on account of its large size  
and mild flavor. Our stock is pure and is as good as can  
be obtained.

Pkt. 5c; oz. 50c; ¼ lb. \$1.50; lb. \$4.50, postpaid.

PIMIENTO or PERFECTION—A medium early, pro-  
lific, perfectly mild variety with extremely thick flesh.  
On account of its thick flesh it will hold up for a long  
time; an excellent sort for canning whole.  
Pkt. 5c; oz. 30c; ¼ lb. 85c; lb. \$2.50, postpaid.



## Sweet Pepper-Cont.



California Wonder

**CALIFORNIA WONDER**—This is a new variety which originated in California. It is one of the largest peppers grown and has remarkably thick and sweet flesh. Of excellent quality, a particularly heavy yielder. Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$4.50, postpaid.

**RUBY KING**—This variety grows to an extraordinary large size. When ripe, a handsome, bright, ruby color; remarkably mild and pleasant to the taste. For stuffing, no other variety can equal it. Pkt., 5c; oz., 30c; ¼ lb., 85c; lb., \$2.50, postpaid.

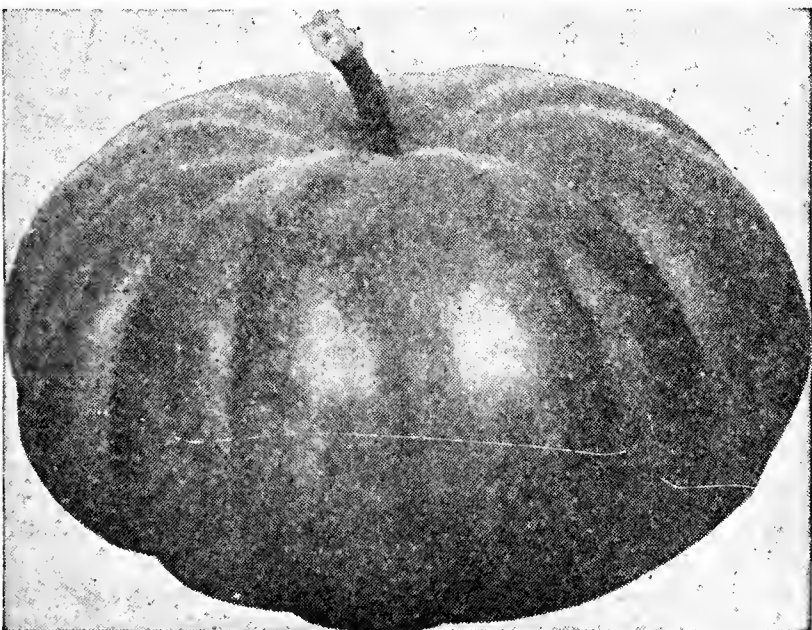
### HOT OR PUNGENT VARIETIES

**RED CHILI**—A rather small, bright red variety, about 2 inches long and pointed. The pods are used in making Chili sauce, and are very pungent and hot. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**LONG RED CAYENNE**—110 Days. A strong, pungent variety, having well pointed fruit, which is bright scarlet when ripe. A very popular variety. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

## Pumpkin

½ oz. to 100-ft. row



Cheese

**CHEESE**—65 Days. A very good table variety. Shape flat, like a cheese box; a good keeper. Often 15 inches across the top. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

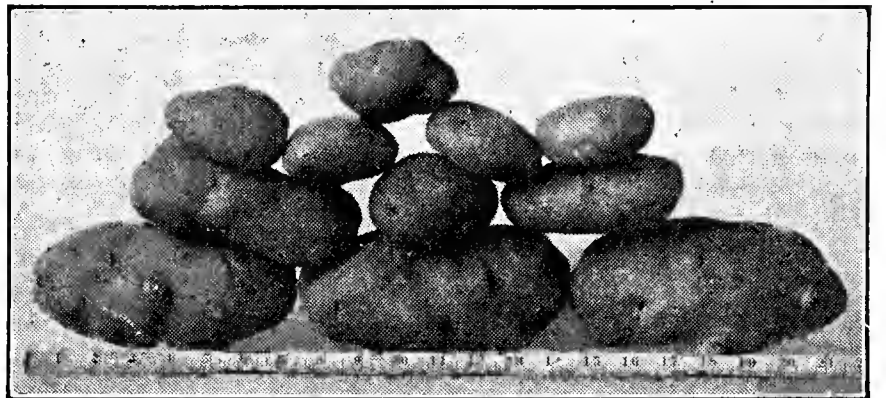
**PIE PUMPKIN**—65 Days. A small round, yellow sort, with fibre pinkish netting. Flesh is thick, sweet and of excellent quality. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c, postpaid.

**KENTUCKY FIELD**—90 Days. Sometimes called large Cheese. A very large, flattened pumpkin, averaging about 2 feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 65c, postpaid.

**GREEN STRIPED CUSHAW**—70 Days. Fruits very large, white crooked neck. Color, creamy white, irregularly striped or traced with green. Flesh light yellow, very thick, rather coarse but sweet. This sort is very productive and popular in some sections. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00, postpaid.

## Dakota Certified Seed Potatoes

5 lbs. to 100-ft. row



**BLISS TRIUMPH or RED BLISS**—This is the most standard red variety in the Southern States. It is very early and matures quickly. The potatoes are round and uniform in shape, eyes slightly depressed and a beautiful bright red in color. It is very hard, and not susceptible to disease. Peck 90c, not postpaid.

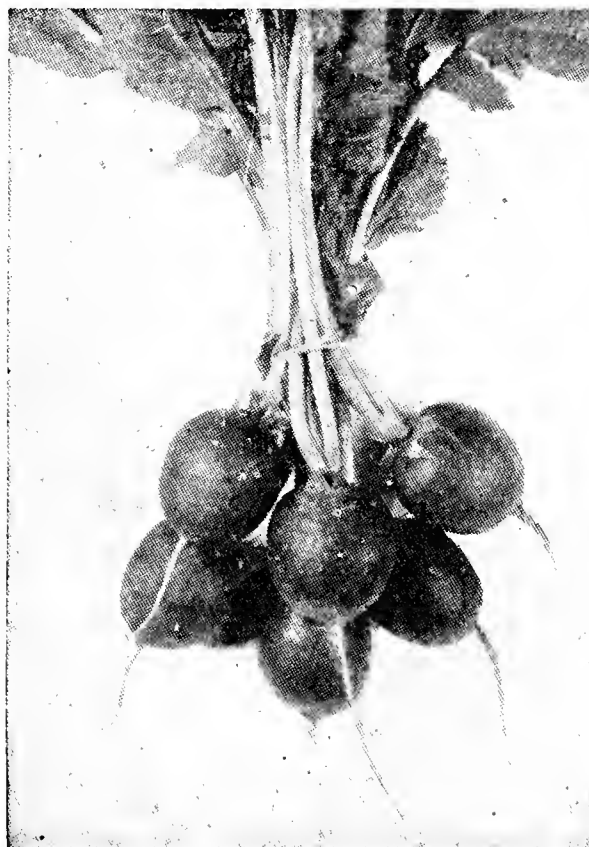
**IRISH COBBLERS**—This variety is one of the most reliable and popular of the early varieties. It is of handsome creamy-white color and of excellent quality, making it most desirable for the best trade. It is a vigorous grower, ripens uniformly and a good keeper; in short, one of the best all-around early potatoes on the market. Peck, 90c, not postpaid.

## Radish

1½ oz. to 100-ft. row

**EARLY SCARLET TURNIP, WHITE TIPPED**—One of the most popular and attractive short varieties. It is globe-shaped, bright rose carmine with bottom and tip clear white. Stems and leaves are small. Very valuable for forcing, as well as for the garden and market. Pkt., 5c; oz., 10c; 2 ozs., 15c; ¼ lb., 20c; lb., 60c, postpaid.

**FRENCH BREAKFAST**—A quick growing, small olive-shaped radish about 1½ inches long by five-eighths to



Vick's Scarlet Globe

three-fourths of an inch in diameter when fully grown. The color is beautiful deep rose scarlet except a little clear white about the tip. This is an excellent variety for planting outdoors for the home garden. Its small tops and earliness make it also desirable for growing under glass. Pkt., 5c; oz., 10c; 2 ozs., 15c; ¼ lb., 20c; lb., 60c, postpaid.

**VICK'S SCARLET GLOBE**—The most popular shipping variety. The roots are slightly olive-shaped and are a rich, bright scarlet in color. The flesh is white, crisp and tender. Tops are of nice size, about 6 inches or more; easy to bunch. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

**LONG BLACK SPANISH**—70 Days. One of the latest and hardest long garden radishes; especially adapted for winter use. The roots are long, thick, almost black, somewhat wrinkled. The flesh is white, of firm texture, decidedly pungent, but well flavored. The roots when matured are usually 7 to 9 inches long by 2 or 3 inches in diameter at the thickest part. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.



## Radish-Cont.

**SCARLET CHINA**—One of the best of the winter varieties. The roots are cylindrical, or largest near the bottom, stump rooted or blunt at both ends. The skin is smooth and of a bright deep rose color.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**LONG WHITE VIENNA**—A very fine, long, white variety; quick growing and ready for use when very young. The flavor is mild and sweet.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**CHARTIER or SHEPHARD RADISH**—A variety of Long Scarlet; top, deep crimson; bottom, almost white.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**WONDERFUL HALF-LONG SCARLET—23 Days.** So rapid in growth as to develop perfectly in 23 days. Grows about 2½ inches long, contrasting from a broad shoulder to a sharp point; very symmetrical and uniform in shape; color, bright scarlet; altogether a gem.

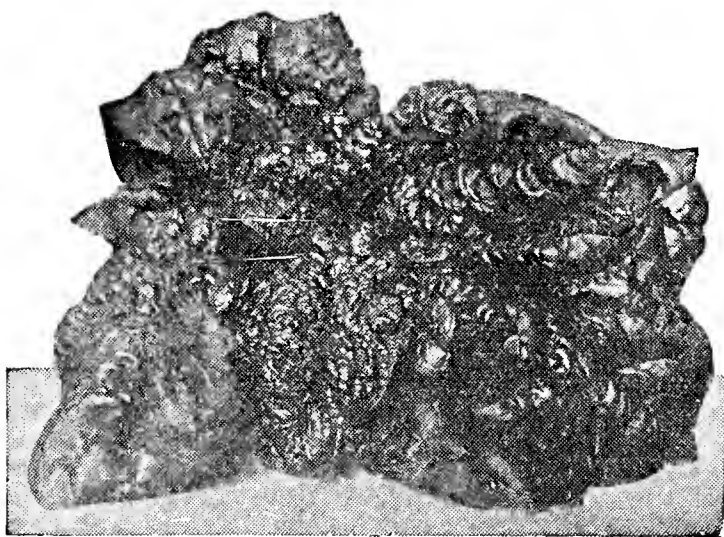
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

## Spinach

2 oz. to 100-ft. row

**BLOOMSDALE—40 Days.** As an autumn sort it is superior to all others; but in the spring is inclined to shoot early. The leaves are twisted and bloated, giving them, when ready for shipment, an elasticity adapting them for transportation to long distances and at the same time giving the crop large measuring qualities.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c, postpaid. 10 lbs., \$2.00, not postpaid.



**NEW LONG STANDING BLOOMSDALE**—Has all the good points of the above, in addition, it will withstand the summer heat and does not go to seed.

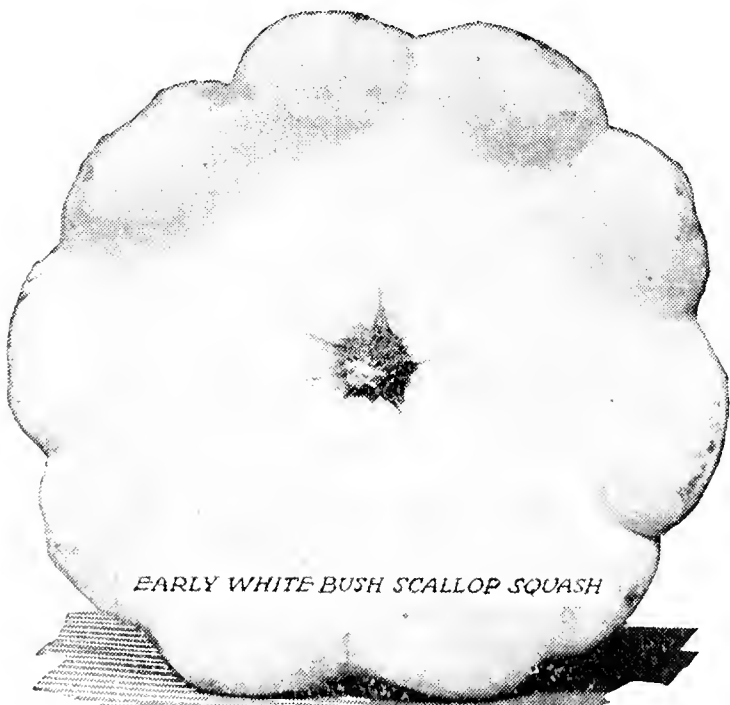
Pkt. 5c; ¼ lb. 20c; lb. 40c, postpaid; 10 lbs. \$2.75, not postpaid.

**BROAD-LEAVED FLANDERS**—One of the most vigorous and strong growing varieties. The leaves are nearly round, uniformly deep green, quite thick and slightly crimped in the center.

Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid.

## Squash

½ oz. to 100-ft. row



EARLY WHITE BUSH SCALLOP SQUASH

**EARLY WHITE BUSH SCALLOP—50 Days.** A very early variety, with flat, creamy white scalloped squashes 4 to 6 in. in diameter. Vine is bush in habit and rather dwarf. This variety is the common "patty pan" squash.

Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**MAMMOTH WHITE BUSH SCALLOP—60 Days.** An early maturing, somewhat flattened, scalloped bush squash of largest size, and the handsomest of the summer varieties for home garden and market. The vines are vigorous and productive. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**YELLOW CROOKNECK**—The well known summer variety. Fruit long, skin very fine and tender when young. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00, postpaid.

**COCOZELLE, ITALIAN VEGETABLE MARROW**—Oblong in shape, shell dark green, Cook and serve the same as other Squash. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10, postpaid.

## Tomato

⅛ oz. to 100-ft. row

**EARLIANA—90 Days.** Very early. Habit of vine dwarf and compact. Fruit borne in clusters of from 10 to 15 in a bunch. A remarkable variety and one which is in good favor with market gardeners.

Pkt. 5c; oz. 25c; ¼ lb. 85c; lb. \$2.50, postpaid.

**DWARF CHAMPION—100 Days.** A dwarf variety sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising. Fruit medium-sized, smooth, uniform and of a purplish-carmine color.

Pkt. 5c; oz. 40c; ¼ lb. \$1.20; lb. \$3.50, postpaid.

**DWARF STONE**—Claimed to be the largest dwarf tomato known, almost double in size of Dwarf Champion, and is similar in habits of growth; very popular with market gardeners and home canners.

Pkt. 10c; oz. 45c; ¼ lb. \$1.35; lb. \$4.00, postpaid.



John Baer

**EARLY DETROIT**—A new tomato of merit; fruit smooth, uniform, nearly globe-shaped, firm and of fine quality; color purplish-pink, season early. Is a fine shipping variety. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**NORTON**—A main-crop, scarlet-fruited variety. Very similar to Stone, of which it is a selection. Introduced by the U. S. Dept. of Agriculture for wilt resistance. Fruits are of medium size, smooth, and solid. Norton bears well and gives a good crop. Vines make a medium to heavy growth. One of the best long distance shippers.

Pkt., 5c; oz., 30c; ¼ lb., 85c; lb., \$2.50, postpaid.

**GULF STATE MARKET TOMATO**—This globe-shaped purplish-pink tomato was developed from Early Detroit and is as early as that variety. It is said to be especially adapted to the Gulf States and California. The fruits are large, showing little depression around the stem, and free from cracks. Pkt., 5c; oz., 40c; ¼ lb., \$1.25; lb., \$3.75, postpaid.

**CHALKS'S EARLY JEWEL—95 Days.** A wonderful new variety in that it is early and bears continuously throughout the season. The fruit is large, smooth, uniform and well ripened clear to the stem, and the flavor and quality are especially fine. Color bright scarlet.

Pkt., 5c; oz., 30c; ¼ lb., 90c; lb., \$2.50, postpaid.

**AVON EARLY TOMATO**—This is a scarlet fruited variety of the very earliest class. It bears as quickly as Earliana, produces fruits of good size, round or slightly flattened, smooth and free from cracks, and of fine quality. It is very productive and its season is longer than other first earliest. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

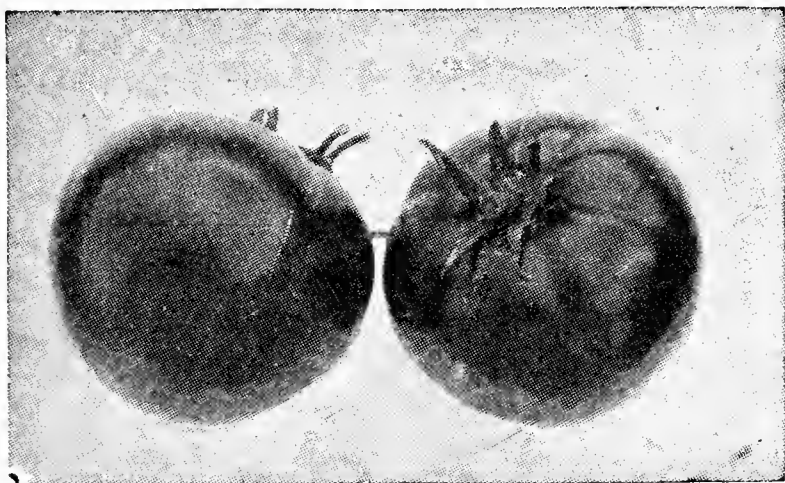
**ARMOUR'S FERTILIZERS PAY—See page 21**

## Tomato-Cont.

**KARGER'S ROOT ROT RESISTANT**—Many gardeners have been unable to grow tomatoes on account of root-rot in the soil. This new variety has been developed by Mr. Geo. Karger and has proven highly resistant to root-rot. It is a strong vigorous grower with sturdy vines producing an enormous crop of large handsome fruit. The tomatoes are a rich scarlet red color, perfectly smooth, of even color, firm and solid. The skin is smooth and shiny, free from cracks or other irregularities. Has a delicious sub-acid and tasty flavor. Pkt., containing about 400 seeds, 25c, postpaid.

**CLARK'S SPECIAL EARLY**—A new excellent variety of tomato, which is now being used very extensively in the Rio Grande Valley section for shipping purposes. It is an early scarlet fruited variety, uniform in shape and carries well. Inclined to be globe-shaped and bears for a very long period. Truly an excellent variety for market gardeners.

Pkt. 5c; oz. 35c; ¼ lb. \$1.00; lb. \$3.00, postpaid.



**KARGER'S ROOT ROT RESISTANT**

**JUNE PINK**—95 Days. A very early and productive pink form of Earliana. The best early pink on the market. Fruit solid and borne in profusion.

Pkt. 5c; oz. 40c; ¼ lb. \$1.20; lb. \$3.50, postpaid.

**STONE**—115 Days. The best main-crop tomato for all purposes, and largely used for canning. Vine tall and prolific. Fruit smooth, large and uniform. Color bright scarlet.

Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75, postpaid.

## Turnip

1 oz. to 100-ft. row

**PURPLE WHITE TOP GLOBE**—An early medium-sized, globular shaped turnip of good quality for either table or stock. A heavy producer and good keeper. The flesh is white and of good eating quality while young.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**WHITE EGG**—A sort forming root the shape and size of egg in an incredibly short period after sowing. Flesh always palatable.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c, postpaid.

**POMERANIAN WHITE GLOBE**—Large variety, used largely for stock. Is globe-shaped, large leaves, hardy.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

**EXTRA EARLY PURPLE-TOP MILAN**

—An excellent medium-size turnip, almost as early as White Milan, smooth white surface, purple top, flat shape, white flesh—its growth is very uniform and quality the best.

Pkt. 10c; oz. 20c; ¼ lb. 35c; lb. \$1.00, postpaid.

**COWHORN TURNIP**—This turnip grows very long, often 12 inches or more, and 2 inches in diameter and nearly half above ground. Very popular for stock feeding; is clear white except a little shade of green at top.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 75c, postpaid.

**YELLOW ABERDEEN**—A large-sized, round, late maturing, long keeping, yellow fleshed turnip. It is hardy, productive, and valuable for stock feeding. The roots are yellow with purple top. The flesh is pale yellow, firm, tender and sweet.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c, postpaid.

## Tomato-Cont.

**EARLY ACME**—The plants are of strong and vigorous growth; very productive fruit of medium size, perfect form, round, slightly depressed at the ends, very smooth (never rough); color a glossy red, with purplish tinge; ripens all over and through at the same time. Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50; postpaid.

**BONNY BEST**—Fruits of beautiful shape and color; a good variety for early market and home use. Scarlet fruit with vigorous vine. Crops ripen uniformly.

Pkt., 5c; oz., 50c; ¼ lb., \$1.50; lb., \$4.50, postpaid.

**BREAK O' DAY**—Developed by F. J. Pritchard of Washington, D. C. A new wilt resistant tomato that is nearly as early as Earliana and as productive as Marglobe. Its fruits are large, smooth, meaty, red and globular, very similar to Marglobe but usually larger, used whole for salads or stuffed.

Pkt., 10c; oz., 60c; ¼ lb., \$1.75; lb., \$5.00, postpaid.

**MARGLOBE**—Tested repeatedly and approved by the U. S. Dept. of Agriculture. Is sure to be planted extensively before long. This is what the Department says about it, "Very productive, second early variety, Fruits large, smooth, meaty, red, globular. Highly resistant to wilt and somewhat resistant to blights."

Pkt., 5c; oz., 40c; ¼ lb., \$1.20; lb., \$3.50, postpaid.

**JOHN BAER**—An early variety, maturing with Bonny Best, producing fruit equally as good as Chalk's Jewel. Color, bright scarlet; good size and smooth. The seed we offer was grown from the introducer's stock. Pkt., 5c; oz., 30; ¼ lb., 85c; lb., \$2.50, postpaid.

**McGEE**—Well known in this state on account of its heavy-bearing qualities. It will yield splendid crops when all other varieties fail. Bright crimson, solid and good flavor. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; lb., \$3.00, postpaid.

**YELLOW PLUM**—95 Days. A small-fruited, bright golden yellow variety, very attractive; for salads or preserves. Pkt., 5c; oz., 60c; ¼ lb., \$1.75, postpaid.

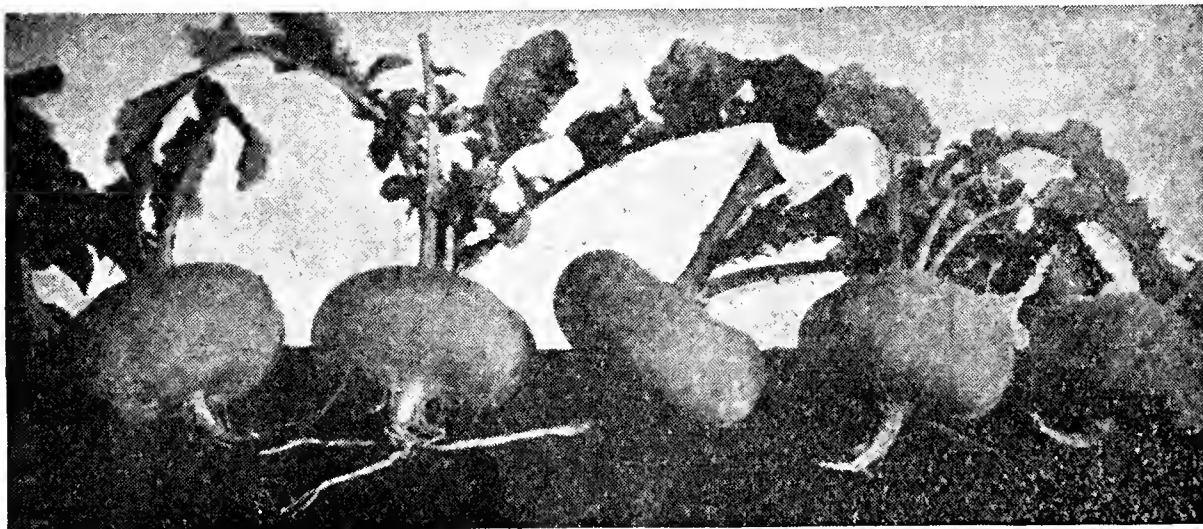
**YELLOW PEAR**—Same as Yellow Plum, except that it is the shape of a pear and a trifle smaller. Pkt., 5c; oz., 60c; ¼ lb., \$1.75, postpaid.

## Rutabaga

1 oz. to 100-ft. row

**AMERICAN PURPLE TOP or LONG ISLAND**—One of the best and most popular varieties, with yellow flesh. It is yellow below ground, with purple top above, and the leaves are small. A good stock-feeder or table variety.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.



**Early White Flat Dutch**

**EARLY WHITE FLAT DUTCH**—Strap Leaved. A medium-sized flat variety, clear white, early and of fine flavor. A fine table variety.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c, postpaid.

**LOUSE RESISTANT**—A splendid white globe turnip which grows well in hot and dry weather. Lice do not seem to attack this variety as quickly as other turnip greens.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**PURPLE-TOP FLAT DUTCH**—Strap Leaved. An early flat variety. White with purple top. It matures quickly and has fine grained flesh of fine flavor. It forms early a fine root, even in shape and of the best quality.

Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.



# Make your home more beautiful with Flowers grown from SATEX QUALITY SEEDS

In the following pages are listed all of the most useful kinds of flowers, including those for every ordinary purpose. The list is arranged in alphabetical order.

Plants are usually divided into three classes: **Annuals**, **Biennials**, and **Perennials**. Annuals are plants which normally live but a single season. Biennials are plants living two years; particularly those which do not bear

flowers and fruit until the second season. Perennials tend to live from year to year.

It is well to include some of all three classes in planning your flower garden. Most of the biennials and perennials bloom early in the season, while nearly all of the annuals continue to bloom until killing frosts. Combining the classes thus lengthens the season.

## Alyssum

**SWEET**—Hardy annual used for border-edging or massing in small beds, blooming early in the spring, with clusters of small, pure white cruciform flowers having a delicate fragrance, most useful in small bouquets; usually not over 8 inches high, but spreading. Prices: Pkt., 10c; oz., 50c.

## Antirrhinum or Snapdragon

**TALL MAXIMUM**—3 to 4 feet. This is the newest creation in Giant Snapdragons and is a marked advance over the older type in size and brilliancy of color. The flowers are closely placed on the stems.

**APPLEBLOSSOM**—Rosy pink yellow lip-----Pkt., 10c; 1/4oz., 50c  
**CANARY BIRD**—Golden yellow center-----Pkt., 10c; 1/4oz., 50c  
**COPPER KING**—Velvety copper-scarlet-----Pkt., 10c; 1/4oz., 50c  
**PURPLE KING**—Deep glowing purple-----Pkt., 10c; 1/4oz., 50c  
**SNOWFLAKE**—Pure white, yellow tube-----Pkt., 10c; 1/4oz., 50c  
**THE ROSE**—Rose pink-----Pkt., 10c; 1/4oz., 50c  
**FINEST MIXED**-----Pkt., 10; 1/4 oz., 40c

## Aster

**CALIFORNIA GIANT**—Two feet high. Petals are very long and recurved and twisted near the center. Flowers larger than the ordinary Comet, and equal in form. Coming into blossom rather late. Splendid for cut flowers. Sow in January. Colors White, Peach Blossom, and Light Blue.

Pkt., 10c; oz., \$3.00.

**QUEEN OF THE MARKET**-----Pkt. 5c; oz. 40c.

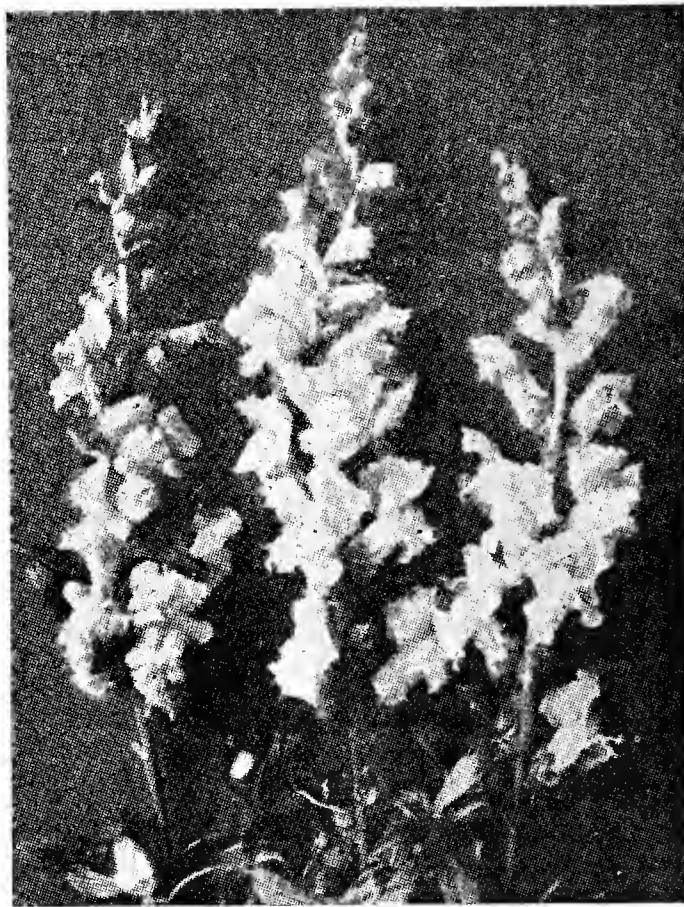
**AMERICAN BRANCHING**-----Pkt. 5c; oz. 35c.

**GLOBE QUILLED**-----Pkt. 5c; oz. 30c.

## Balsam (Touch-Me-Not)

**CAMELIA FLOWERED**—Double flowers all colors. Covered with white polka dots. Pkt. 5c; oz. 30c.

**ROSE FLOWERED**—Double flowers, all colors. Pkt. 5c; oz. 20c.



Snapdragon—Tall Maximum



Calendula—Campfire

## Calendula (Pot Marigold)

One of the best and showiest free-blooming hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders, particularly bright in late Fall, continuing in bloom from early Summer until killed by frost; valuable also for pot culture, blooming freely in Winter and early Spring. Sow in the Fall.

**CAMPFIRE OR SENSATION**—The blooms are flat and are undoubtedly larger than those of any type previously introduced. Color brilliant orange with a scarlet sheen with full yellow center. Has extra long stems.

Pkt. 10c; oz. 60c.

**BALLS GOLD**—Deep golden yellow. Pkt. 10c; oz. 60c.

**PRINCE OF ORANGE**—Glowing orange with dark center. Pkt. 5c; oz. 25c.

## Candytuft

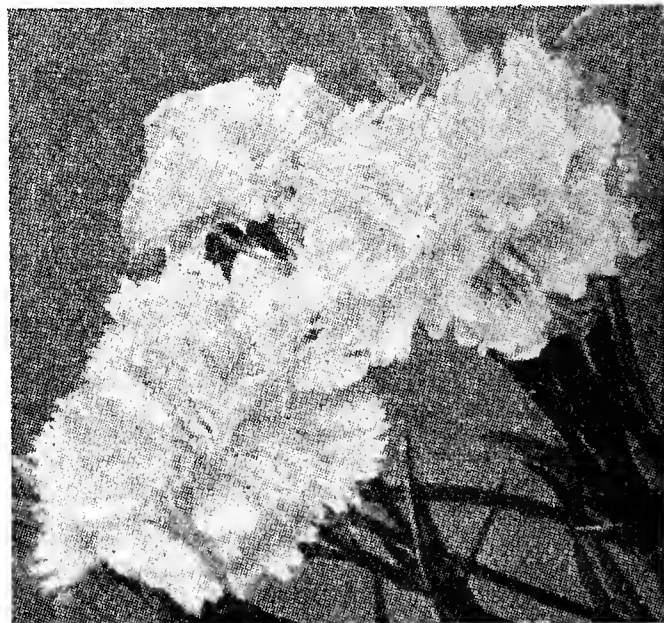
Prolific bloomers, bearing in profusion clusters of flowers in a wide range of colors. Indispensable for cutting and very effective in beds or borders. Thin out to 4 inches in a row.

**GIANT WHITE HYACINTH FLOWERED**—This is an extra select strain of Candytuft, with enormous trusses of white blooms, especially desirable for cutting. Grows about 18 inches high.

Pkt. 10c; oz. 50c.

**DWARF UMBELLATA**  
Finest mixed.

Pkt. 5c; oz. 25c.



Chabaud's Giant Carnations

## Carnation

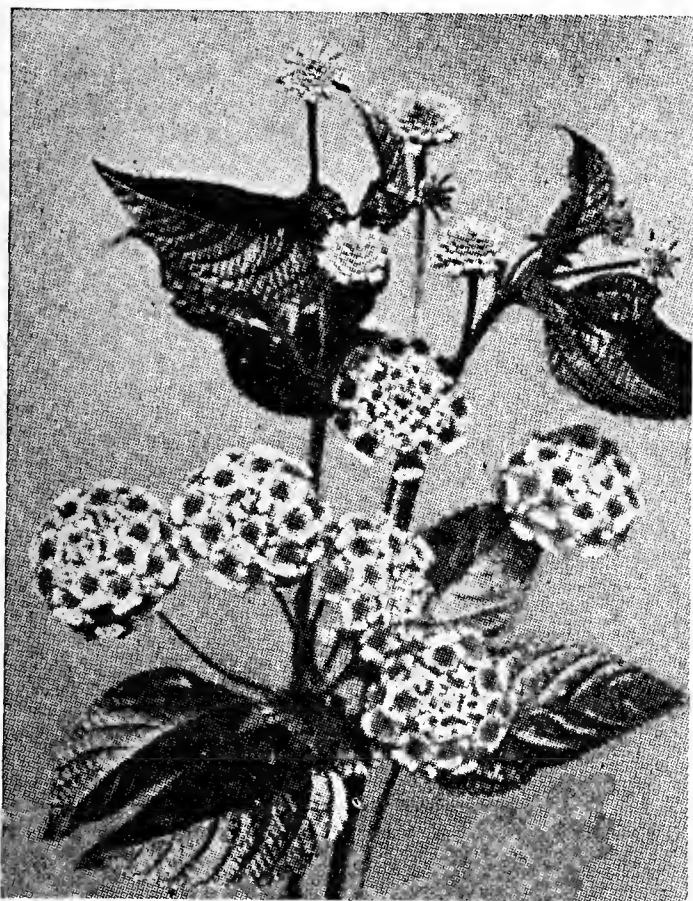
Carnations are general favorites for their delicious fragrance and richness of color. They are indispensable, both for greenhouse culture in Winter and for the garden in Summer. Sow in the Fall.

**CHABAUD'S GIANT**—Will come into bloom six months from seed and continuing to bloom all Summer. They form from ten to twenty stalks bearing huge flowers of fine form; dark red, white, deep rose. Pkt., 10c; 1/4 oz., 75c.

## Castor Bean

**RICINUS**—The large ornamental variety. Pkt. 5c; oz. 15c.





Lantana

## Daisy (Shasta)

A splendid hardy variety with flowers rarely less than 4 inches across, of the purest glistening white with yellow center, broad, overlapping petals and borne on long stems. A beautiful cut flower, remaining in a good condition a week or more.

**CONQUERER**—Flowers very large, pure white, stems about two and one-half to three feet. Pkt. 10c; oz. \$1.25.

## Four O'Clock

Used for hedges for large beds for public foundation planting and places. Mixed colors. Pkt. 5c; oz. 15c.

## Forget-Me-Not

A dwarf plant bearing small blue flowers. Pkt. 5c; oz. 60c.

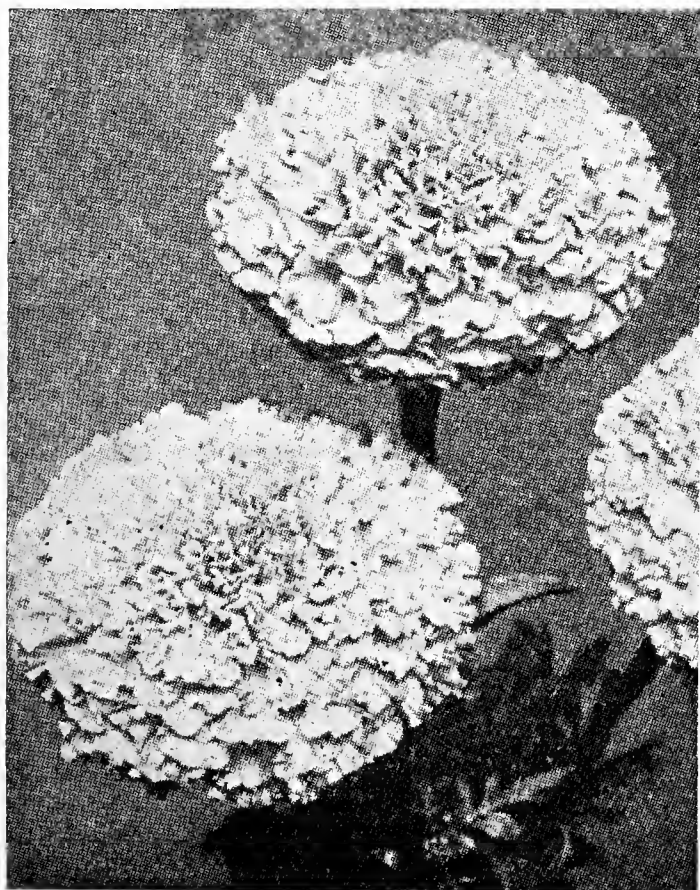
## Globe Amaranth (Gomphrena)

A low-growing hardy annual, Everlasting or Straw Flower, about 8 inches high, with globe-shaped flowers, in red, white, pink and orange. Mixed. Sow in the Spring. Pkt. 10c; oz. 25c.

## Gypsophila (Baby Breath)

Delicate, free-flowering plants covered with star-shaped flowers, valuable for mist-like effect and as trimming in bouquets; also for hanging baskets or edgings.

**PARIS MARKET**—White-----Pkt. 10c; oz. 25c  
**ROSEA**—Light Blue-----Pkt. 10c; oz. 30c



Marigold

## Centaurea Cyanus (Corn Flower)

Sometimes called Corn Flower or Bachelor's Button. This is an old-fashioned, hardy annual and still a great favorite for cutting purposes. Are very easily cultivated; the seed should be sown in the Spring where they are to remain and thin out to 3 or 4 inches.

**DOUBLE WHITE**—This is a new variety. It is absolutely pure white and very double; splendid as a cut flower. Pkt. 10c; oz. 30c.

**DOUBLE BLUE**—A pleasing shade of blue, much prettier than the single kinds. Height 2 to 3 feet. Pkt. 10c; oz. 30c.

**DOUBLE PINK**—A beautiful shade of bright pink. Pkt. 10c; oz. 30c.

**DOUBLE MIXED**—All colors. Pkt. 10c; oz. 25c.

## Chrysanthemum

**CARINATUM**—Large daisy-shaped, blooms with old and beautiful arrangement of colored rings surrounding centers. Colors: White and Yellow. Pkt. 10c; oz. 75c. Mixed: Pkt. 5c; oz. 25c.

**CORONARIUM DOUBLE**—White Pearl.

**CORONARIUM DOUBLE**—Tall Yellow

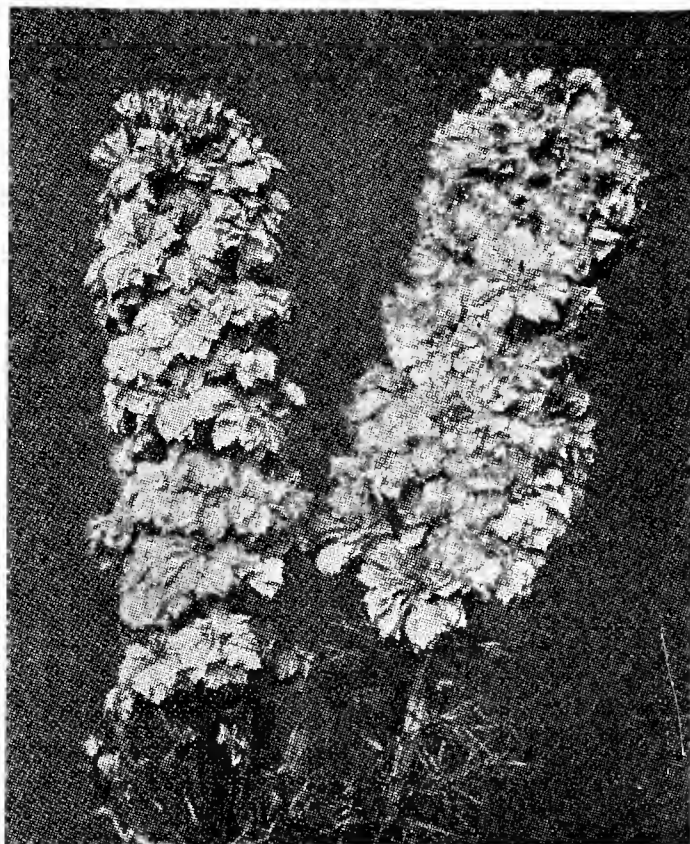
## Cockscomb (Celosia Cristata)

**DWARF GIANT EMPRESS**—This beautiful dwarf plant has bronze leaves; forms very large crimson combs; height usually about 1 foot. Pkt. 10c; oz. \$1.50.

## Cosmos

A tall, feathery, green stalk bearing daisy-like flowers in all shades of lavender, pink and white. Blooms all summer. Pkt. 5c; oz. 25c.

**CYPRESS VINE**—A very ornamental climber with fine feathery leaves bearing small red and white star-shaped flowers. Pkt. 5; oz. 25c.



Larkspur

## Hollyhock

Splendid background for a flower garden and shows up well along the fence. Bearing open rose-shaped flowers. Mixed colors. Pkt. 5c; oz. 35c.

## Hyacinth Beans (Jack Beans)

A rapid climber, blooms and pods are very ornamental. Colors: White, purple, or mixed. Pkt. 5c; oz. 15c.

## Lantana

A tender perennial, two to three feet high, bearing verbena-like clusters of flowers, in orange, white, rose and other colors. Blooms constantly all Summer. Sow in early Spring.

**HYBRIDA—MIXED**—Pkt. 10c; oz. 75c.

## Larkspur (Delphinium)

Annual varieties. The Larkspur is one of the handsomest and most useful of plants and for large gardens in invaluable. Sow in the Fall to early Spring.

**TALL DOUBLE STOCK FLOWERED**—Colors: Dark blue, bright rose, lustrous carmine, white. Pkt. 10c; oz. 45c.

**TALL HYACINTH FLOWERED**—Colors: Pink, purple, dark blue, white, mixed. Pkt. 10c; oz. 60c.

## Marigold

A showy plant with a profusion of flowers in brilliant colors of yellow and orange.

**AFRICAN TALL DOUBLE ORANGE**—A beautiful flower of gigantic size; a very bright orange color, plant usually growing about two to three feet high. A very popular sort. Pkt. 10c; oz. 75c.

**AFRICAN TALL DOUBLE LEMON**—A lemon shade that is beautiful. Pkt. 10c; oz. \$1.25. **MIXED COLORS**—Pkt. 10c; oz. 75c.



## Mignonette

No garden is complete without the Mignonette. It is a hardy annual growing 6 to 12 inches high, being very easy to grow. The flowers are pyramid-shaped spikes, which are very fragrant.

**MIXED COLORS**—Pkt. 10c; oz. 40c.

## Moon Flower

**NOCTIFLORA**—A very rapid climber bearing large white flowers blooming at night. Pkt. 5c; oz. 40c.

## Morning Glory

**HEAVENLY BLUE—Improved**—A beautiful climber bearing very large blue flowers in great profusion almost hiding the foliage. Pkt. 10c; oz. 75c.

**JAPANESE MIXED**—A very reliable climber bearing flowers in many variegated colors. Pkt. 5c; oz. 30c.

## Nasturtium

**DWARF**—Used for a border along walls, paths, etc. A constant bloomer and very attractive in color. Pkt. 5c; oz. 10c.

**TALL**—Used for arbor and trellis decoration. Flowers very rich in colors, striped and spotted with different shades. Pkt. 5c; oz. 10c.

**GOLDEN GLEAM—New Double Sweet Scented**—The plant forms a vigorous, large bush which produces short runners, averaging 18 inches. The flowers commence as soon as the plant nears complete development and when full grown, produce a blaze of color, the long stemmed flowers standing well above and almost completely covering the foliage. Pkt. 10c. oz. 25c.



Nasturtiums

## Pansy

**GIANT TRIMARDEAU**—Flowers are well formed, of enormous size, in a great variety of colors, the very finest strain. Finest mixed. Pkt. 10c; ¼ oz. 50c.

**NON PLUS ULTRA**—The richest and most varied mixture possible, producing the largest flowers, consisting of the darker shades. Pkt. 10c; ¼ oz. \$1.25.

## Petunia

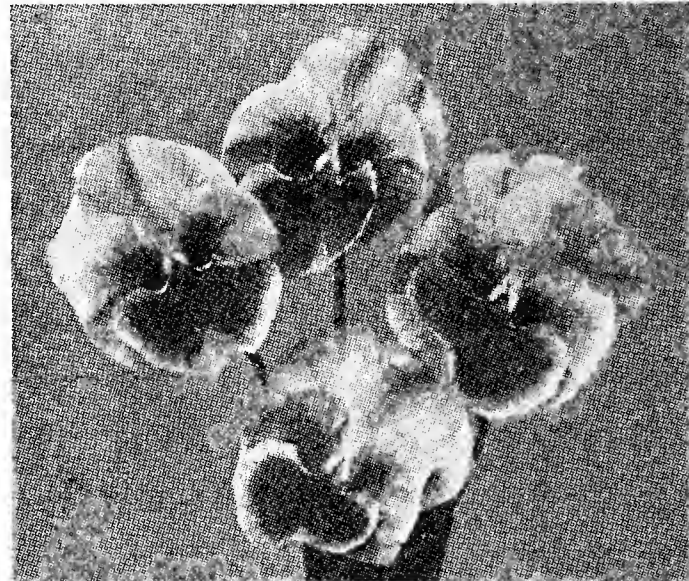
Their richness of color, duration of bloom and easy culture will always make them popular.

**HYBRIDA**—Deluxe bedding mixture, large flowered dark sorts. Pkt. 10c; oz. \$2.00.

## Phlox

**DRUMMONDI—Grandiflora**—This hardy annual is unequalled for the magnificent display of brilliant colors when used in beds. Will thrive in most any soil. Grows from 6 inches to 1 foot high. Colors: White, crimson, flesh, and mixed. Pkt. 10c; oz. \$1.25.

**STAR**—Choice mixed. Pkt. 10c; oz. \$1.00.



Pansies

## Pinks (Dianthus)

The family of Pinks is unrivalled for brilliancy and rich variety of color. Plants are bushy, of symmetrical form, blooming profusely until Fall, rendering them very satisfactory for summer varieties.

**CHINESE DOUBLE MIXED**—This is a double annual sort of beautiful colors. Pkt. 5c; oz. 25c.

**HEDDEWIGI DOUBLE MIXED**—This is another type that is beautiful. Pkt. 10c; oz. 75c.

## Poppies

Should be planted in the late Fall or very early in the Spring, as in our section they burn out as Summer comes on.

**CALIFORNIA POPPY—Eschscholtzia**—A very beautiful annual with finely cut, feathery foliage, having a velvet, cup-shaped flower. All colors mixed. Pkt. 5c; oz. 25c.

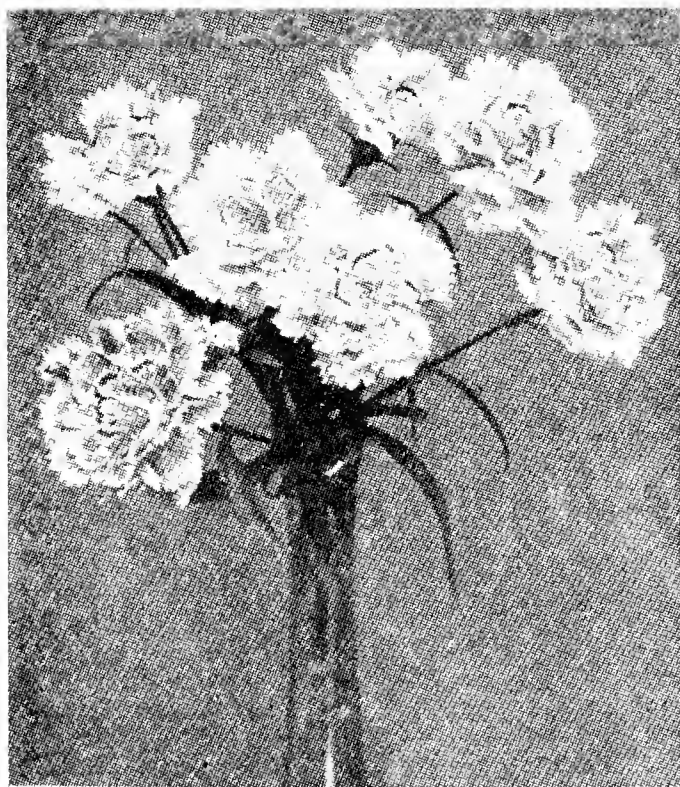
**SHIRLEY MIXED**—This is a beautiful type of satiny flowers with a wide range of colors. Pkt. 5c; oz. 30c.

**CARNATION-FLOWERED**—Large size; flowers very double; of many colors. Pkt. 5c; oz. 25c.

## Portulaca (Moss Flower)

One of the best low-growing annuals for hot and sunny places; will grow and bloom profusely in the summer time when other flowers are dead. Sow after all danger of frost is over.

**SINGLE MIXED**—Many beautiful colors. Pkt. 10c; oz. 45c.



Dianthus or Pinks—Double Mixed

## FOOD FOR PLANTS:

Is as necessary as is your daily food. Man can't grow without food, nor can plants. Plants require fourteen elements to grow properly. Three of them come from the air, and Nature supplies those three admirably. Left to follow her own course, Nature would supply the elements to the soil—but we don't care to let Nature have control of our flowers and gardens, so WE must supply any deficiencies in the soil. Scientists worked many months before the perfect plant food was developed. Now we have **VERT**—easy to apply, pleasant to handle (non-odorous powder), prompt in its results. Your flowers, gardens and lawns will be the greener and will produce more fruit from its use.

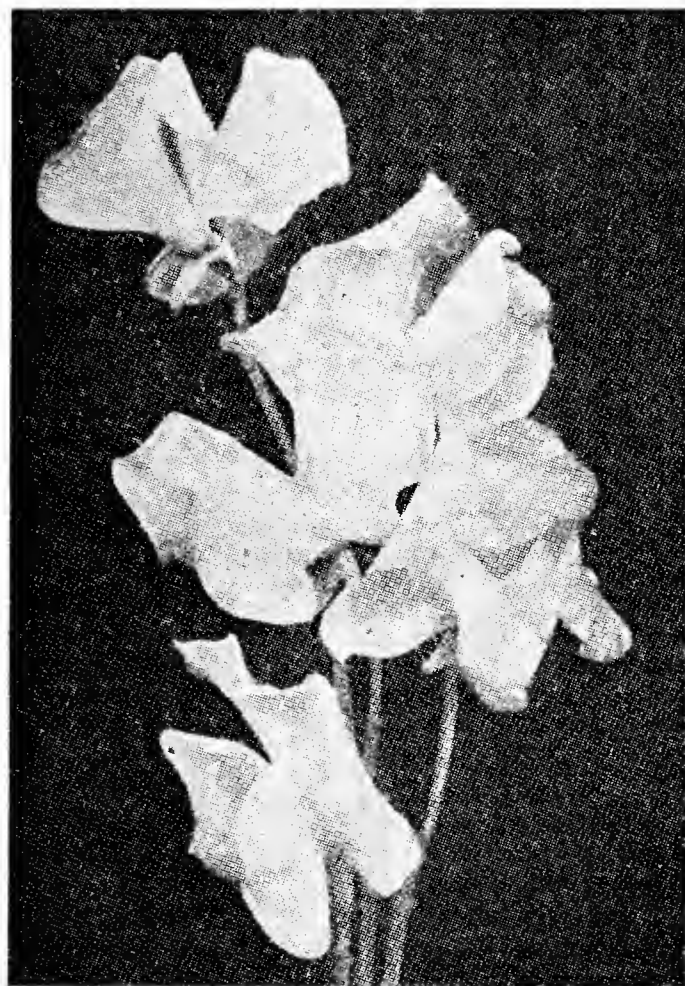


## Salvia

**SPLENDENS**—Flowering sage, is a very ornamental plant, flowering in spikes of a rich red color. Pkt. 10c; oz. \$1.25.

## Stocks

**MAMMOTH EARLY BRANCHING NICE** Plants grow about 1 foot high, making a compact bush covered with splendid spikes of most brilliant colors and varieties. Pkt. 10c; oz. \$1.25.



Sweet Peas

flower boxes. Start blooming in early Spring until late Summer. Sow seed in January in boxes.

**MAMMOTH**—Colors: Scarlet, pink, purple, yellow, white, mixed. Pkt. 10c; oz. \$1.00.

## Sweet William

Beautiful flowering plant. Produces a splendid effect in borders and beds with its rich and varied flowers.

**DOUBLE MIXED**—Perennial. Pkt. 5c; oz. 50c, postpaid.

**SINGLE MIXED**—Pkt. 5c; oz. 30c.

## Sweet Peas

**STANDARD SUPERB SPENCER**—Sweet Peas will grow and blossom in any good garden soil. For best success sow early, as early as the ground can be worked in the Spring. Regardless of the weather sow early, in trenches 4 inches deep; cover about 1 inch with soil, and fill the trench as plants grow. Set the support early and hoe often.

	Pkt.	Oz.	Lb.
<b>WEMBLEY</b> —Lavender suffused, plumbago blue--	.10	.25	2.25
<b>RENOWN</b> —Carmine red-----	.10	.25	2.25
<b>FIERY CROSS</b> —Bright red, orange, cerise-----	.10	.25	2.25
<b>MISS CALIFORNIA</b> —Salmon, cream pink-----	.10	.25	2.25
<b>PINKIE</b> —Large rose pink-----	.10	.25	2.25
<b>KING WHITE</b> —Large pure white-----	.10	.25	2.25
<b>MRS. TOM JONES</b> —Best azure blue-----	.10	.25	2.25
<b>STANDARD SPENCER MIXED</b> -----	.05	.15	1.50

## Increase the Nitrogen

In your Sweet Pea beds through the use of NITRAGIN. Nitragin promotes leaf and stem growth; increases proportion of stalk to fruit and hastens blooming. Your Sweet Pea seed should be inoculated with Nitragin. When you send in your order, include with it one box of Nitragin for general garden use. Then inoculate all of your peas and beans—garden and flower varieties. You will be well pleased with the results.

## Vinca (Periwinkle)

Highly ornamental, free-flowering, compact evergreen shrubs, with shining green foliage and handsome circular flowers. 18 inches high.

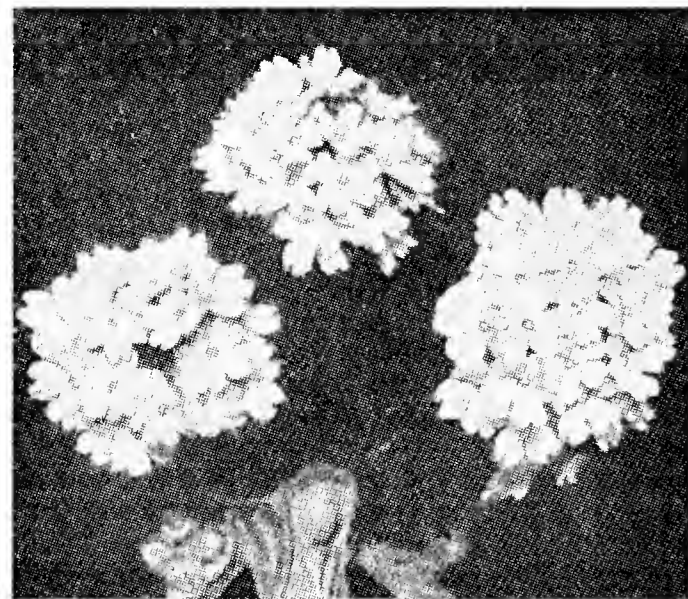
**PURE WHITE**—Beautiful pure white. Pkt. 10c. oz. \$1.00.

**ROSEA**—Rose with crimson eye. Pkt. 10c; oz. \$1.00.

**MIXED**—Pkt. 10c; oz. \$1.00.

## Verbenas

Very popular for massing in beds and



Verbena

**More Vegetables and Better Flowers Through Controlling Diseases with SEMESAN**—Prevent many damaging diseases of flowers and vegetables that are carried on the seed, by disinfecting with Semesan. It destroys the destructive diseases on the seed and protects them from the roots of the soil, which results in increased stands of more vigorous, healthy plants that yield larger, quality crops. Sprinkling of the seedling beds with Semesan solution effectively prevents damping-off. Recommended especially for seeds, bulbs, gladiolus corms, dahlia tubers, and rose bushes. Easily applied as a liquid or dust; 1 oz. treats 15 to 30 lbs. of seed. Directions in every can. Prices: 2 oz. 50c; 1 lb. \$2.75; 5 lbs. \$13.00. Free pamphlet.

## SPRING FLOWER PLANTS

HALF DOZEN 25c; ONE DOZEN 40c, POSTPAID.  
Plants

**ANTIRRHINUM**—(Snapdragon)—Rose, Pink, White, Yellow, Scarlet, Purple, Mixed.

**ASTERS**—(California Giant) — White, Pink, Blue, Mixed.

**CALENDULA**—Orange, Golden Yellow, Mixed.

**CARNATION** — (Chabaud's Giants) — Red, White, Rose, Mixed.

**CHRYSANTHEMUM**—Yellow, White, Mixed.

**DAISY**—(Shasta)—White, Yellow Centers.

**HOLLYHOCK**—Mixed colors.

**LARKSPUR**—Red, White, Pink, Purple, Mixed.

**MARIGOLD**—Orange, Lemon, Mixed.

**PANSY**—Non Plus Ultra.

**PINKS**—Mixed Colors.

**PETUNIAS**—DeLuxe Bedding Mixed.

**PHLOX**—Mixed.

**SALVIA**—(Scarlet Sage).

**STOCKS**—Mammoth Early Branching Nice.

**VERBENA**—(Mammoth)—Scarlet, Pink, Purple, Yellow, Mixed.

**ZINNIA**—(California Giants)—Red, Pink, White, Yellow, Orange, Mixed.

**ZINNIA**—(Lilliput)—Mixed colors.

**CASH AND CARRY PRICES: Half Doz. 12c; 1 Doz. 20c**

# ZINNIAS

## Satex California Giants

or Mammoth Special Florists' Strains

The great advantage of this type is that the very large flowers are of enormous size and flat, getting away from the conical type of the Giants and eliminating the stiffness that has been so objectionable in Zinnias in the past. The flowers from the time they open are attractive, making them a good cut flower from the early bud until they are in full bloom. They are twice the size of the ordinary Giants.

**ENCHANTRESS**—Light rose, deep rose center. Pkt. 10c; oz. 90c.

**LAVENDER QUEEN**—Deep lavender. Pkt. 10c; oz. 90c.

**ORANGE KING**—Cadmium or orange scarlet. Pkt. 10c; oz. 90c.

**SCARLET GEM**—Glowing deep scarlet. Pkt. 10c; oz. 90c.

**PURITY**—Best white. Pkt. 10c; oz. 90c.

**SPECIAL FLORISTS' MIXTURE**—Pkt. 10c; oz. 90c.

**GOLD MEDAL GIANT DAHLIA FLOWERED ZINNIA**—The latest development in Zinnias with flowers of enormous size and resembling the decorative Dahlia very much in shape. Mixed colors.

**EXQUISITE**—By far the most pleasing of our collection. Truly Dahlia-flowered as regards form and size. Color, light rose with center a deep rose. Pkt. 10c; ¼ oz. 30c; oz. \$1.00.

**GOLDEN STATE**—A very rich orange-yellow, turning to an attractive orange when in full bloom. Pkt. 10c; ¼ oz. 30c; oz. \$1.00.

**CRIMSON MONARCH**—The largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. Pkt. 10c; ¼ oz. 30c; oz. \$1.00.

**DREAM**—A fine lavender, turning to purple (mallow purple). A new desirable shade in Zinnia. Pkt. 10c; ¼ oz. 30c; oz. \$1.00.

**POLAR BEAR**—A very large, pure white, the best white yet seen in Zinnia. True Dahlia form. Pkt. 10c; ¼ oz. 30c; oz. \$1.00.

**SPECIAL GOLD MEDAL MIXTURE**—A well-blended mixture containing all the above varieties. Pkt. 10c; ¼ oz. 30c; oz. \$1.00.



Dahlia Flowered Zinnia

## Lilliput, Pompon or Baby Zinnia

The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all Summer until late in the Fall.

	Pkt.	¼ oz.	Oz
CANARY YELLOW	.10	.25	.75
CRIMSON GEM	.10	.25	.75
ROSEBUD—Rose pink	.10	.25	.75
VALENCIA—Burnt orange	.10	.25	.75
WHITE GEM	.10	.25	.75
TOM THUMB MIXTURE	.10	.25	.75

**GIANT PICOTEE TYPE**—A remarkably new and distinct class with beautiful double flowers, each petal being distinctly tipped with various shades, resembling the Picotee Carnations. Pkt. 10c; oz. \$1.00.

## Gladiola Bulbs

Plant in open ground when danger of frost is past. Plant 8 inches apart and cover about 3 inches deep.

**AMERICA**—One of the most popular Gladiola offered; lavender pink flowers of very large size, borne on robust stems make delicate cut flowers. Dozen, 50c, postpaid.

**MRS. FRANK PENDLETON**—A very early variety. The flowers are of a beautiful salmon-pink with a creamy-white blotch in the throat which greatly enhances its beauty. Dozen 60c, postpaid.

**HALLEY**—A most attractive early blooming sort with large well-opened flowers of a delicate salmon-pink with a creamy blotch on lower petals. Dozen 60c, postpaid.

**PEACE**—One of the grandest white introductions of 1912. This variety seems to produce blossoms later in the season than any other variety. Doz. 60c, postpaid.

**MRS. FRANCIS KING**—The magnificent flowers measure 4½ inches across. A brilliant flaming pink, blazed with vermilion red. Dozen 60c, postpaid.

**SCHWABEN**—For size of flower and keeping qualities this Gladiola is considered as being the best of yellows. Dozen 60c, postpaid.



## FREE!

### 25c Flower Seeds

with every order of Flower Seeds amounting to \$1.00; in other words, order \$1.25 worth of Flower Seed and send us \$1.00 with your order. All Flower Seeds are postpaid.

## Tuberose

**MEXICAN EVERBLOOMING**—The most beautiful Tuberose that was ever brought to our attention; it begins to produce its fragrant flowers in June and blooms continually until frost. Plant in good soil, and water them occasionally during extreme warm weather, and an abundance of lovely flowers will be the reward. In the southern part of the State the bulbs may be left in the ground all Winter. Dozen 30c; 100, \$1.75, postpaid.

**KEEP THIS IN MIND**—It matters not how good your land may be, how well you fertilize it, how thoroughly you cultivate—your crop can be no better than the seeds you plant.



## Field Seeds

The varieties of field seed listed are adapted to the climate conditions of Southwest Texas. They are grown for us by the best growers of field seeds in the state, and you will find them of the best quality and true to name.

**NOTICE**—Owing to the fact that grain markets are constantly fluctuating, it is impossible for us to quote field seed in larger quantities than by the pound. Should you be interested in large quantities, we would be very glad to quote you on any item that you may be interested in. We especially recommend that you try some of the Arizona Grown Hegari and Milo Maize.

## Alfalfa

**HAIRY PERUVIAN**—Is particularly recommended for our own state of Texas. As compared with common alfalfa, Hairy Peruvian is more upright, less branched and has fewer and somewhat coarser stems and smaller crown. It is also characterized by rapid growth, large amount of leaves, quick recovery after cutting and ability to make growth in cool weather after ordinary alfalfa has ceased growing. Lb. 30c, not postpaid.

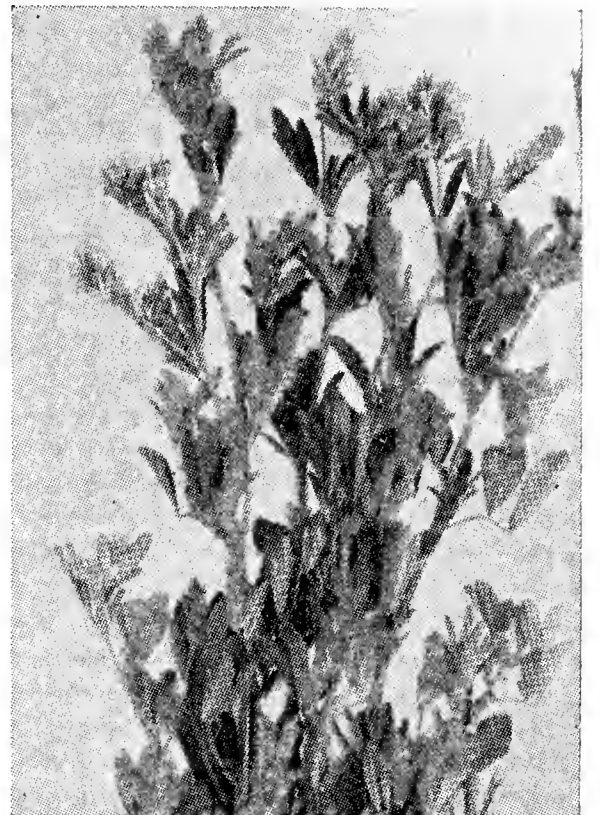
**WHITE FLOWERING SWEET CLOVER**—Thrives on practically all soils in Texas. Sweet Clover is a splendid soil builder and especially so when the entire crop is turned under. Every planter with cows should have a patch as it is a great milk producer. Sow at the rate of 15 to 20 pounds to the acre. Lb., 25c, not postpaid.

## Algeria

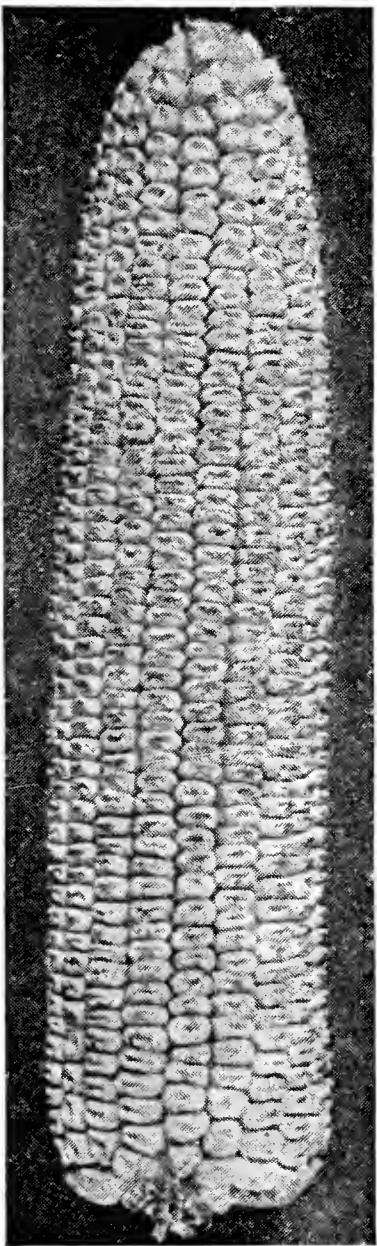
A new grain, very superior both as a grain and as a forage crop to any of the crops now being grown. Produces in most cases from 2 to 3 times as much grain per acre as the other grains, and as much as 12 times as much fodder per acre.

It makes a large soft grain, the largest heads ever produced by any crop. The heads weighing from  $\frac{3}{4}$  to 1 pound, each making as high as 8 heads to the stool.

It makes a stalk from 4 to 5 feet, with leaves about twice the size of Indian Corn, and from 15 to 19 leaves to the stalk. Lb., 20c, not postpaid.



Alfalfa



Texas King

## Seed Corn

**SURE CROPPER CORN**—A truly remarkable drought resisting power. As old as is the history of corn growing in the South and Southwest is the search for a corn able to hold up and make a crop on the scanty moisture which we have in so many fields at some period of almost every season. In Sure Cropper we have found that corn. Lb. 15c, not postpaid.

**GIANT WHITE RED COB**—Makes a very large ear of the finest corn. Grains very large, deep, wide and thick, cob red, very popular wherever tried. We recommend this as being the finest variety of White Red Cob Corn. Has a very large, deep, wide, thick grain. Grains of medium size. Lb. 15c, not postpaid.

**GIANT YELLOW**—This beautiful yellow corn is deeply grained and very uniform in size. A sure cropper and good yielder. Matures in 90 to 100 days. Lb. 15c, not postpaid.

**NATIVE SQUAW CORN**—A drought-resisting variety, plantable in the summer months. It has blue and white grains, therefore not so desirable by the market gardener. However, it makes a sweet and very juicy roasting ear. Lb. 15c, not postpaid.

**TEXAS GROWN JUNE CORN**—The stalks under favorable conditions grow from 7 to 8 feet high, and yield from 30 to 60 bushels to the acre. For best results it should not be planted until June or July, as it stands the hot weather better than any corn. Seed can be produced at any time after May 15th. Lb. 15c, not postpaid.

**CHAMPION WHITE PEARL**—An extra early pure white variety of dent corn. Matures in 100 days from time of planting, is very productive and the ears are exceedingly heavy. The grains are extra deep and white, and the cob is very small. A great favorite. Lb. 15c, not postpaid.

**DROUGHT RESISTER CORN**—It is a white early maturing, deep rooted, drought resisting corn, with medium size stalk; a corn that is easy to get a stand of, for it is a very hard variety and a fast grower. Reese Drought Resister is an exceptionally deep rooted corn with roots almost straight down, with an abundant root system, permitting plowing within 6 inches of stalk and to a depth of 6 inches without disturbing the root system. It is almost impossible for a man to pull up a stalk of Reese Drought Resister when in roasting ear. Lb., 15c; pk., \$1.50, not postpaid.

## CROTOX

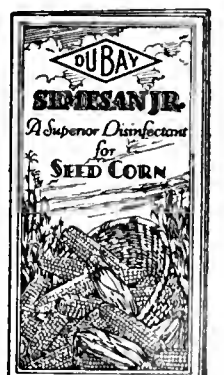
**PROTECTS Your Corn From Gophers, Rats, Birds, Etc.**  
See page 21 for Full Details



## SEMESAN JR.

**SEMESAN JR.**—For Field and Sweet Corn. A simple, quick, inexpensive dust treatment with Semesan Jr. destroys harmful disease organism on the seed, protects seed from rotting in cold wet soil, controls seedling blight, reduces root and stalk rots and generally increases crop yields.

Harmless to seed corn. Does not slow up rate of drop. Only 2 ounces necessary per bushel of seed field or sweet corn. Costs only 2½c an acre.



### PRICES

4-oz. tin.....\$0.50  
1-lb. tin.....1.50  
5-lb. tin.....7.00  
Ask for Free Booklet

## Popcorn

There is always a good market for Pop Corn, and every corn grower should plant it.

**JAP-O-RICE**—A newer variety. Cob small, grains long and slender. Used by nearly all commercial poppers. A really wonderful variety.  
Lb. 20c, not postpaid.

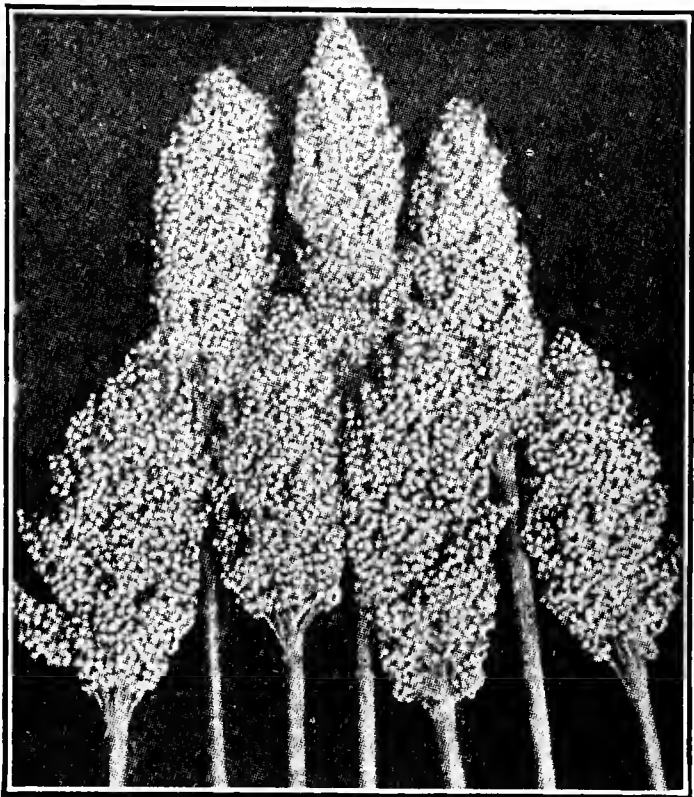
**GIANT YELLOW or T.N.T.**—Produces ears in great abundance on stalks nearly 6 feet high. It pops perfectly white. A single kernel will expand to nearly an inch in diameter.  
Lb. 25c, not postpaid.

## Non-Saccharine Sorghums

**DWARF STRAIGHT NECK YELLOW MILO MAIZE**—This variety is the most wonderful Milo Maize and stands the drought well. It is earlier than Kaffir Corn and White Milo Maize, and very prolific. Stock seems to prefer it to corn, and it has a laxative effect on them, keeping them in good condition.  
Lb. 10c, not postpaid.

**DOUBLE DWARF YELLOW MILO**—Earlier than the old type Milo. The stalks are short, but large and stand remarkably well. The heads are large and the seed is larger or as large as the old type Milo. It will stand greater drought than most other sorghums and for that reason is adapted to dry farming. Should be extensively grown; in fact, every farmer should plant some of it.  
Lb., 10c, not postpaid.

**ARIZONA GROWN DOUBLE DWARF YELLOW MILO**—Without a doubt the finest strain of Double Dwarf Maize that you can buy. You will find this seed as true to type as it is possible to produce same.  
Lb., 15c, not postpaid.



Hegari

**HEGARI, the NEW GRAIN SORGHUM**—Some years ago when Kaffir Corn, Milo Maize and Feterita were introduced into the dryland farming crop catalog many people probably imagined that the limit in grain sorghum development had been reached; but that is almost certainly a mistake. We have abundant reason to hope for greater things yet. The new grain Sorghum Hegari, while it is too recent an introduction to justify settled conclusions, certainly promises in some respect, to out-merit all of its predecessors.  
Lb. 10c, not postpaid.

**ARIZONA GROWN HEGARI**—The finest of Hegari grown. It will pay you big dividends to plant some of this splendid variety.  
Lb. 15c, not postpaid.

**TRUE DARSO**—This wonderful Sorghum is neither saccharine nor non-saccharine. It originated in what is called a "spor" stalk brought in by a farmer in 1912 to the Experiment Station at Stillwater, Oklahoma. After 8 years experimenting Dean Knight stated it was the best silage and feed crop, and the people of Coryell County, Texas, seem to indorse same, as they are rather enthusiastic about it. It will cross with other grain sorghums if planted near them. Six pounds of seeds will plant an acre.  
Lb. 10c, not postpaid.

**DWARF BLACK HULL WHITE KAFFIR**—It makes a straight upright growth and has a strong stem with enormous wide leaves. The heads form at the top of each stalk. For the grain sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder sow one-half to one bushel, either broadcast or in drills.  
Lb. 10c, not postpaid.

**FETERITA**—The best drought-resistant non-saccharine Sorghum, and pretty well known in this state. Earlier than Kaffir Corn, and a very heavy yielder. The grain is similar to Milo, but is pure white and also larger and softer. It does not shatter badly and yields as high as 80 bushels to the acre.  
Lb. 20c, not postpaid.

## Saccharine Sorghums

**RED TOP or SUMAC CANE**—This is the most popular variety for our State, and the one most generally planted. Seed is smaller than that of the Orange or Amber. Produces an immense quantity of fodder.  
Lb. 15c, not postpaid.

**EARLY ORANGE**—This variety has taller and heavier stalks than any variety of cane. It is not quite as early as the Early Amber, but is a better producer, and is better for syrup-making.  
Lb. 15c, not postpaid.

**EARLY AMBER**—This is the earliest sort, and makes fine hay, which is relished by all stock.  
Lb. 15c, not postpaid.

**JAPANESE HONEY DRIP**—Known in some sections as Japanese Seeded Ribbon Cane. It makes an unusually large stalk, sometimes as large in diameter as Ribbon Cane and much taller. Yields as much as four to five hundred gallons of the very best syrup to the acre.  
Lb. 20c, not postpaid.



Honey Drip

## Cow Peas

**WHIPPOORWILLS**—Has brown, speckled seed, easily gathered on account of the upright, bushy growth of the plants. The most generally planted pea on the market, being one of the earliest and best varieties on the market.  
Lb. 15c, not postpaid.

**CHINESE RED**—This cow pea seems similar to the Iron variety due to its resistance to wilt and root-knot caused by eel worms. The seeds are small and red and set in the pods very closely. The plant grows rather erect making it easy to cut.  
Lb. 20c, not postpaid.

**AUSTRIAN WINTER PEAS**—This variety of peas is fine to sow on black land to cover crop to plow under the green manure or for green feed for early spring. You may sow in fall or early spring. One of its main advantages is that it can stand a great deal of cold weather.  
Lb. 15c, not postpaid.

**CREAM PEAS**—This is the most beautiful table pea we have ever had the pleasure of offering our customers. It has given best satisfaction of any variety we have ever offered for table use, and very deservedly so, as there are none that can surpass it in splendid flavor. In point of yield they double the well known Blackeye, command a higher price on the market, cook quicker and are in every way superior to it as a table sort. It grows in bunch form. Peas are of a cream color.  
Lb., 15c, not postpaid.

**BROWN CROWDER**—An excellent bearer and vines make a splendid forage. Planted extensively as a dried pea.  
Lb. 15c, not postpaid.

**BLACKEYE**—Grown extensively, as the dry peas find a ready market during the winter. The vines furnish excellent forage and produce large quantities.  
Lb. 15c, not postpaid.



## Cow Peas (Cont.)

**BRABHAM**—An early wilt-proof, disease-resisting variety. Very similar to Whippoorwills except much smaller seed requiring less for planting a given acreage. The foliage is valuable for hay. Lb. 15c, not postpaid.

## Soy Beans

**MAMMOTH YELLOW**—Most popular, largest yielder. Grows 3 to 5 feet high. Should not be planted until danger of frost is past. For hay and as a soil builder sow 2½ bu. per acre broadcast; for beans plant 15 to 30 lbs. per acre in drills 3 ft. apart. Lb. 15c, not postpaid.

## Grass Seed

**SUDAN GRASS**—The great hay and forage crop. This wonderful new grass seems to be taking the country by storm. This grass has been grown very extensively in Texas the past season and has been tested out in a number of other states and the verdict is unanimous, everywhere it has been grown it spells success. It seems to grow successfully on all kinds of land, stands dry weather and does not blight under ample rainfall. Sudan Grass is thought to be the original wild form of the cultivated sorghums. It is an annual, the seed having to be sown every year. It looks very much like Johnson Grass when growing but has a different root growth. Johnson Grass reproduces itself from the underground root stalks as well as from the seed. Sudan Grass will not sprout from the roots after frost has killed the plant. Ranges in height from 5 to 10 feet, stems small and somewhat more leafy than Johnson Grass. Like the sorghum crops it must be planted each Spring and dies when the frost comes. Lb. 25c, not postpaid.

**BERMUDA GRASS**—Almost everybody living in this section of the country known this grass. It is planted as a lawn grass, and nothing will stand the sun better, or will make a prettier carpet, when kept short, than this grass. It is also very valuable as a pasture and hay grass, which heretofore had to be propagated by the roots. Lb. 60c; 10 lbs. \$5.50; 100 lbs. \$35.00, not postpaid.

**ENGLISH RYE GRASS**—Is largely sown by our landscape gardeners for winter lawns on Bermuda soil. The Bermuda blades being easily affected by frost, become red and rusty looking, while English Rye during winter presents a most beautiful appearance, being of a vivid green, and as the Bermuda during April and May makes its appearance it overgrows the English Rye, causing the latter to decay and act as a fertilizer to the existing grass. It should be sown from September to March at the rate of 3 to 4 bushels of seed to the acre.

Lb. 15c; 10 lbs. \$1.25; 100 lbs. \$11.00, not postpaid.



Millet

## Millet

**FANCY BIG GERMAN**—The most popular of all the Millet for hay or seed. It matures in 6 to 8 weeks after planting. If wanted for hay it should be cut while in bloom, as the hay quality decreases as soon as the seed hardens in the head. Our variety of Millet is the best and you will find it superior to any variety. Lb. 20c, not postpaid.

**HOG MILLET**—The seed is large for a Millet and makes a rich food. Good for hogs or chickens. The seed ripens while the stem is yet green, so that if cut promptly you can get a crop of seed and also one of fodder or ensilage. Lb. 20c, not postpaid.



Sudan

**USE ARMOUR'S FERTILIZERS — See Page 21 of this catalog**

## Peanuts

**SPANISH**—The earliest variety grown, pods are small, but remarkably well filled and solid, and the yield per acre is very large. Can be cultivated with the plow. Because of its early habit and easy cultivation it is the best variety to grow for fattening hogs. Lb. 10c, not postpaid.

**WHITE JUMBO**—This is the standard variety for roasting. The peanuts are three



times as large as those of the ordinary Spanish peanut. The nuts proper grow in fine double-jointed hulls of beautiful appearance, are from one-half to one inch in length, and of fine flavor. An excellent variety, worthy of the highest recommendation. Lb. 15c, not postpaid.

## Rape Seed

**DWARF ESSEX**—This is considered the most desirable variety of Rape, and should be planted on every farm and in every garden. Furnishes rich, nutritious pasture and green feed 6 to 7 weeks after planting. Lb. 15c; 10 lbs. \$1.25, not postpaid.

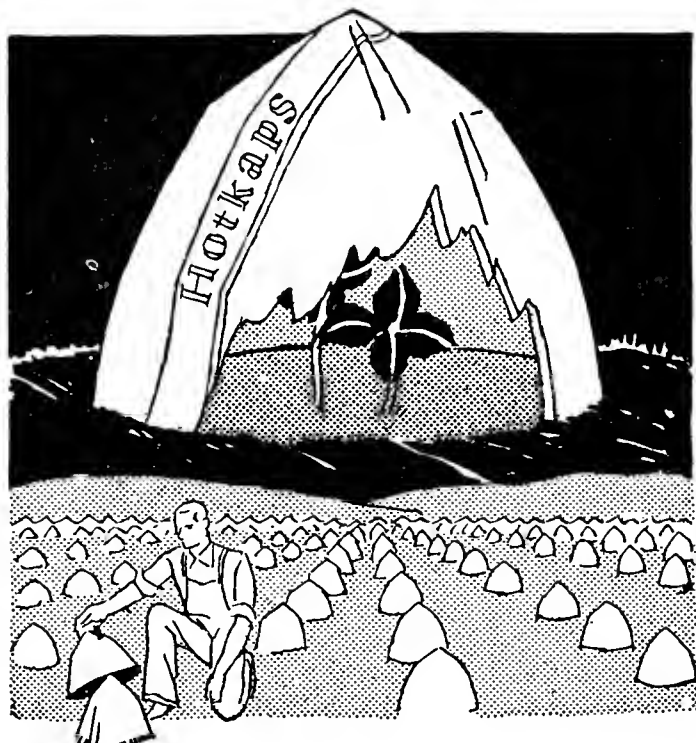
## Sunflower

**MAMMOTH RUSSIAN**—Produces very large heads sometimes 15 inches across. The seeds are valued very highly as a feed for poultry. The seed can be planted on a waste piece of ground any time in the early spring and until the middle of July. Should be sown at the rate of about 3 pounds to the acre. Lb. 15c; 10 lbs. \$1.00, not postpaid.

## Field Beans

**PINTO BEANS**—Grown mostly for a dry bean but makes a good snap bean when the pod is young and green. Pods flat and tender. Lb. 15c, not postpaid.

**PINK BEANS**—Grown extensively as a dry bean and finds a ready market. Lb. 15c, not postpaid.



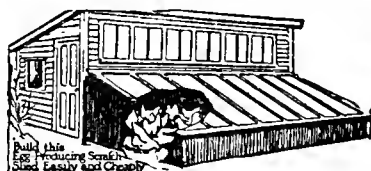
## Millions of HOTKAPS Guard Growing Crops

HOTKAPS are waxed paper cones, easily set out in quantity over seed or growing plants. They guard against rain, frost, cold, wind, hail, birds and insects, and maintain perfect mulch. Growth is forced and yield is increased 10 to 25 per cent. Crops mature 2 to 3 weeks earlier, and bring premium prices. Prices: 1,000 for \$10.00; 250 package with setter and tamper, \$3.65; 100 package with setter and tamper, \$2.40; steel setter, \$2.25. Garden setter, 50c. Postage extra.



Germāco  
**Hotkaps**

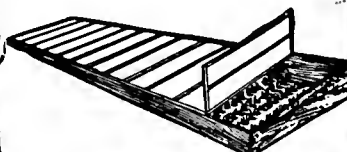
## FLEX-O-GLASS ADMITS ULTRA VIOLET RAYS



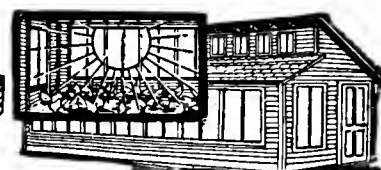
*Extra eggs or chicks saved pay for this Flex-O-Glass Scratch Shed in a few days.*



*Ideal for enclosing porches, health rooms, covering screen doors, etc.*



*Flex-O-Glass hotbeds grow plants quicker and much stronger.*



*Easily nailed on barn, chicken coop, hog house and garage windows.*

FLEX-O-GLASS costs only one-eighth as much as glass, is cut with ordinary shears, nailed on, easily removed and reinstalled. FLEX-O-GLASS pays for itself in a few days in extra chicks saved—but it lasts for years.

It doesn't pay to turn your chicks out in the spring rains, slush and snow to catch cold and die. Science has proved you cannot raise them successfully under glass. Put them in a brooder house with large FLEX-O-GLASS windows that will admit plenty of unskimmed sunlight. Every chick will stay healthy, free from rickets (weak legs) and other diseases. Their fast, strong growth will be amazing. Use 15 square yards of FLEX-O-GLASS—only \$5.00 worth—for 300 chicks. Also keep

your hens in this coop next winter and gather eggs while they are high. Raise your early pigs under FLEX-O-GLASS. Give them actual sunshine indoors—Natures only health producer. FLEX-O-GLASS Hotbeds raise strong plants for transplanting. Frames are light, easily made, easily handled and hold heat better than glass. "FLEX-O-GLASS" marked on every yard assures perfect satisfaction, as its exceptional qualities are fully protected by patents.

1 Yard or more	per yard	\$ .35
5 Yard Roll	per roll	1.35
10 Yard Roll	per roll	2.70
15 Yard Roll	per roll	4.05
25 Yard Roll	per roll	6.75

## \*Red Seal Rat Death

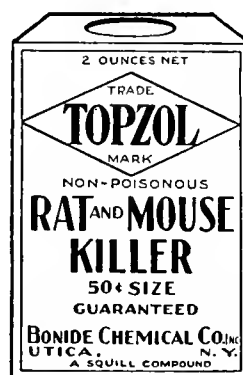


RED SEAL RAT DEATH is not new or an experiment but has been successfully used in all work done by the International Exterminator Company who for 21 years have specialized in ridding institutions and large buildings of these pests. However, this is the first time it has been offered for sale to the home consumer and is filling a long felt want. It not only kills rats and mice but embalms and dries them up, thus leaving no odor.

2-oz. can.....\$ .50  
8-oz. can.....1.50

## GREENTOX-50

GREENTOX-50 will protect the beauty of your garden by killing insects. Pleasant to use, non-poisonous and harmless to humans, birds and pets. See page 24 for complete description.



**RATS** Kill Them With  
**TOPZOL**  
A NEW, SAFE, SURE AND SANE  
EXTERMINATOR

**TOPZOL**—A new EXTERMINATOR that is NON-POISONOUS to humans, domestic animals, poultry, dogs or cats; but will kill rats and mice quick. TOPZOL drives them outdoors to die. Numerous materials and contrivances have been designed for the destruction of rats and mice, but few of them have proved to be of outstanding usefulness. When using a deadly rat poison the danger of poisoning oneself as well as live stock, poultry, pet dog or cat, is always present. This danger is done away with when using TOPZOL as a rat and mouse killer, as it contains no deadly poison; having the distinct advantage of being relatively HARMLESS TO HUMANS AND DOMESTIC ANIMALS and therefore can be used with assured safety around the home, barn, poultry house, warehouse or any rat or mouse infested building.

TOPZOL is guaranteed to kill rats and mice and nothing else, when used according to directions. Purchase price refunded if it fails. 2-oz. can 35c, postpaid.

## Topzol Prepared Rat Bait

NO MIXING — NO MUSS — NO FUSS

The baits are prepared with Topzol Rat and Mouse Killer and wrapped into individual baits. Merely scatter wherever you locate the rats or mice. Package of 10 prepared baits.....\$ .15





## VERT FOR BETTER LAWNS—FLOWERS VEGETABLES AND SHRUBS

You can have better lawns, flowers, and vegetables, if you use hardy, disease-free seed and the right plant food.

Plants, like human beings, must receive the right nourishment. VERT provides an economical, practical, and effective way to secure finest results. Economical because the cost is only 10c to 20c for every 100 square feet. Practical because it is clean, odorless, easy to apply—can be sown by hand like grass seed or applied with an ordinary kitchen collander. Effective because it contains all of the elements of plant food required to produce early, vigorous growth and bring fruit, flowers, and foliage to full development. Complete direction in every bag.

100-lb. bag	-----	\$4.00
50-lb. bag	-----	2.50
25-lb. bag	-----	1.50

## Armour's Fertilizers

NOTE—Prices on all fertilizers are subject to market changes.

Write for quantity prices.

**ARMOUR'S SPECIAL GARDEN FERTILIZER**—This is a special prepared fertilizer for the home gardener containing the proper proportion of various ingredients to produce early, vigorous growth and bring vegetables, fruit, flowers and foliage to full development. Prices: 10-lb. bag 50c; 25-lb. bag \$1.00; 50-lb. bag \$1.50.

**ACID PHOSPHATE—16%**—It gives excellent results on nearly all crops but is especially recommended for use on grains and grasses. Prices: Lb. 4c; 100 lbs. \$1.50.

**BONE MEAL**—Ground very fine. Acts very quickly. There is no better fertilizer for the home garden than this splendid material. Splendid for rose beds, pot plants, etc. Prices: Lb. 5c; 100 lbs. \$2.35.

**LIME (Hydrated)**—For the sweetening and renovating of land that has become sour. It promotes growth and has a tendency to prevent weeds. Prices: Lb. 2c; 40 lbs. 40c.

**NITRATE OF SODA**—A fertilizer very quick in action nad used for the ntirogen it contains. Will mature a crop several weeks earlier and greatly imprvove it. Prices: Lb. 6c; 100 lbs. \$2.75.

**MURIATE OF POTASH**—To be used liberally, especially for root crops. Prices: Lb. 5c; 100 lbs. \$3.25.

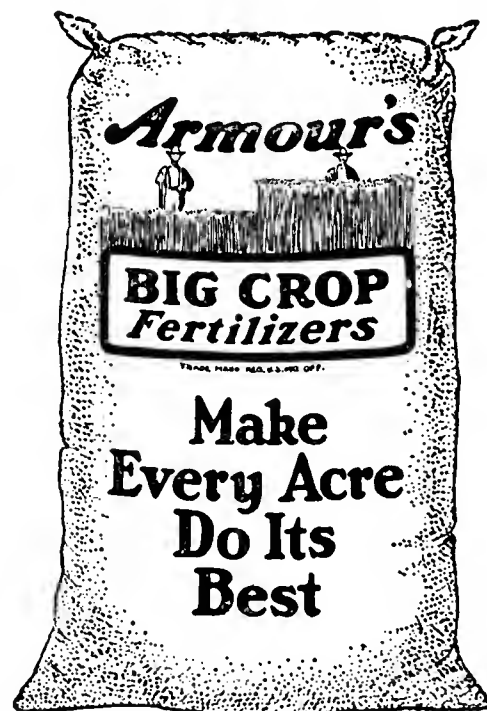
**AMMONIA SULPHATE**—Contains approximately 25% ammonia (nitrogen). One of the highest nitrogen foods. Prices: Lb. 6c; 100 lbs. \$2.25.

**ARMOUR'S 6-12-6**—A mixture for cotton and corn growers. Also used by truck farmers for potatoes, watermelons, tomatoes, etc. Prices: Lb. 5c; 100 lbs. \$2.40.

**ARMOUR'S 6-10-7**—A mixture for the grower who desires a lower phosphate content. Prices: Lb. 5c; 100 lbs. \$2.35.

**ARMOUR'S 5-15-5**—A mixture for the grower who desires a high phosphate content. Prices: Lb. 5c; 100 lbs. \$2.40.

**ARMOUR'S 9-18-18**—This brand has been especially prepared for such crops as require a quick, strong fertilizer. Especially recommended for potatoes, strawberries, watermelons, and all garden truck. Prices: Lb. 6c; 100 lbs. \$3.50.



## Stim-U-Plant



### PLANT FOOD IN TABLET FORM

The modern efficient and scientific method of fertilizing all kinds and conditions of growing plants in home garden, orchard and on farms.

**STIM-U-PLANT**—Is a 26-grain tablet with a guaranteed chemical analysis of 11% Nitrogen, 12% Phosphoric Acid and 15% Potash. No other plant food contains anything like as high an analysis as this.

1. They give an exact feeding unit.
2. No messy mixing.
3. No unpleasant odor.
4. Maximum efficiency because no food-value lost in scattering, leaching, or run-off of soil surface-water.
5. Makes repotting of plants unnecessary as it replaces the food withdrawn by the growing plant.

Stim-U-Plant tablets are packed in four sizes:

- \*Trial Size, 15 cents. Containing 10 Tablets.
- \*Medium Size, 75 cents. Containing 100 Tablets.
- \*Bucket, \$3.50. Containing 1,000 Tablets.

Postpaid

## KILL

JOHNSON GRASS WITH




Atlacide Non-Poisonous Weed Killer exterminates all undesirable vegetation—including poison ivy, etc.—as easily as watering a garden, without poison hazard to humans or animals. Simply mix with water and apply on any vegetation—weeds, grass, etc., with a sprinkling can or sprayer. Especially recommended for obtaining weed-free driveways, paths, tennis courts and gutters. 1 lb., 30c; 10 lbs., \$2.50, not postpaid.

## Cyanogas

A gray powder giving off a poisonous gas when coming in contact with air. Kills ants, rats, moles and other rodents. Prices: ½ lb., 45c; 1b., 75c; 5 lbs., \$3.00.

## Carbon Bisulphide

**CARBON BISULPHIDE (High Life)**—Used very extensively in fighting harvester and cut ants. Most effective if used after a good rain, pour carbon bisulphide into nest opening late in the evening and close up opening. Use from 1 quart to gallon depending upon size of nests. As a weevil control use 2 to 3 ounces to a 50-gallon drum. Qts., 75c; Gal., \$2.25, not mailable.



# INOCULATE

Alfalfa, Soy Beans

Clovers — all Legumes

with

## NITRAGIN

**65c** per bu. size—  
Alfalfa, Clovers,  
Lespedeza

**50c** per bu. size—Peas, Vetch, Beans, Aust. W. Peas

**35c** per bu. size—Soy Beans, Cow Peas

**REDUCED TO**

**YOU CAN NOW AFFORD TO INOCULATE ALL YOUR LEGUMES WITH DATED, HIGH COUNT NITRAGIN.**

Full value guaranteed in every package of NITRAGIN—packed with Billions of live, fresh and efficient Legume Germs.

For your protection every package of NITRAGIN bears the Expiration DATE, Germ COUNT when packed and the PRICE. Don't gamble! Know what you are buying. Insist on NITRAGIN.

**NITRAGIN EASY TO APPLY**

NITRAGIN is a granular MOIST soil-like culture, packed in tins. Easy to apply. Directions on every can.

**NITRAGIN—The Original Legume Inoculator—is the lowest priced, high quality inoculator on the market.**

### NITRAGIN INOCULATION PRICES

When ordering, always specify kind of seed.

Alfalfa, all Clovers Lespedeza		Soy Beans, Cow Peas	
Size	Price	Size	Price
1/2 bu. ....	\$.35	1 bu. ....	\$.35
1 bu. ....	.65	2 bu. ....	.65
2 1/2 bu. ....	1.40	5 bu. ....	1.40
		10 bu. ....	2.45

Peas, Vetch, Beans, Austrian Winter Peas		Garden NITRAGIN for Peas, Beans, Sweet Peas and Lupines	
Size	Price		
1/2 bu. ....	\$.35	Can be used on any	
1 bu. ....	.50	amount of seed,	
*12 3/4 bu. ....	.80	up to 8 lbs.	
5 bu. ....	2.25	Price 25c	

\*"100 lb. size" packed only for Vetch and Peas.

**ALWAYS THE LARGEST—and most widely distributed inoculator in the U.S.A.**

## Increase Farm Profits and Gardening Pleasures

Prevent Disease Losses by Using Du Bay Seed Disinfectants



**SEMESAN—For Vegetable and Flower Seeds.**

Diseases often reduce germination and result in a poor stand, lowered quality and reduced yield of vegetables and flowers. Kill these harmful disease organisms on the seed with Semesan before planting. Semesan may be applied as a dust or liquid and is harmless to seeds. Effective in controlling damping-off of seedlings and certain cuttings. Full directions in can for use on vegetable and flower seeds and bulbs.

Prices: 2 oz. 50c; 1 lb. \$2.50; 5 lbs. \$13.00.

**SEMESAN BEL—For Seed Potatoes.**

Effective in controlling such seed-borne diseases as scab, rhizoctonia, and black leg. Protects seed piece from rotting caused by certain soil-borne organisms, improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed.

Prices: 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00.

**CERESAN—For Seed Grains.**

Effective in controlling stinking smut and seed-borne flag smut of wheat; seeding blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills. Only 2 ounces needed per bushel of seed wheat, rye, sorghums, or millets, and 3 ounces for oats and barley.

Prices: 1 lb. 75c; 5 lbs. \$3.00.

## ANTROL

### KILLS ANTS in the Nest!

ANTROL is easy to use, economical, safe around children and pets. It consists of small glass containers from which the worker ants carry special Antrol Syrup to the nests for food. The whole ant family is quickly killed at the source—the only way to get permanent relief. Controls both sweet and grease-eating ants.

#### PRICES:

Antrol Sets containing 9 containers and 1 6-oz. bottle of Syrup .....	\$1.25
Antrol Syrup for Refilling:	
4-oz. bottle .....	.35
Pint .....	.85
Individual jars with syrup .....	.15
Regular Antrol Set, 4 Jars with Syrup .....	.50



### "REGULAR" ANTROL SET



## CROTOX

### BIRD AND RODENT REPELLENT

Treats All Smooth Surface Seeds

Saves Seed Loss and Replanting

**BONIDE CRO-TOX** protects your seeds during the period when they are most easily damaged by ridding your fields of crows, doves, larks, starlings, blackbirds, pheasants and other seed-pulling birds and rodents, such as squirrels, woodchucks, moles, etc.

No need to replant seed when Bonide Cro-Tox is used. Birds and rodents will not molest seeds treated with Bonide Cro-Tox. Bonide Cro-Tox saves you expense and labor of replanting—assists you in preventing seed rot—aids and hastens germination. A guaranteed protection against seed pests at an insignificant cost of a few cents per acre.

1/2-Pt. can—treats 1 bushel seed .....	\$.60
1-Pt. can—treats 2 bushels seed .....	1.00
1-Qt. can—treats 4 bushels seed .....	1.50





# SPRAYING PAYS

## ACME Insecticides and Fungicides

A RELIABLE BRAND



### Acme Garden Guard

A garden insecticide and fungicide for use as a dust. No water, no mixing no fuss. Prices: 1-lb. sifter carton 25c; 5 lbs. 75c; not mailable.

### Acme Paris Green

A rich emerald color and of fine fluffy physical character. Containing 55% arsenious oxide, it will give quickest control where extreme measures are necessary. Prices: 1/4 lb. 16c; 1 lb. 50c; 5 lbs. \$2.00; 14 lbs. \$5.25; not mailable.

### Acme Two-Way Spray

A balanced insecticide and fungicide containing 14% arsenate of lead and 83% Bordeaux Mixture. Two results with one application. Prices: 1/2 lb. 20c; 1 lb. 30c; 4 lbs. 80c; not mailable.

### Acme Lime Sulfur

For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite. Prices: 1 lb., 30c; 5 lbs. \$1.30; 10 lbs. \$2.25; 25 lbs. \$3.50; 100 lbs. \$14.00, not mailable.

### Acme Spray Soap

A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Its use with Nicotine greatly increases the value of that spray. 1 lb. 30c; 5 lbs. \$1.10; 10 lbs. \$2.00.

### Acme London Purple

A favored insecticide for 50 years. Now stronger and better than ever. Prices: 1/4 lb. 15c; 1 lb. 30c; 4 lbs. 60c; not mailable.

### Acme Arsenate of Lead

The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Prices: 1/2 lb. 18c; 1 lb. 30c; 4 lbs. 70c; 100 lbs. \$13.50; not mailable.

### Acme Bordeaux Mixture

Prevents large losses caused by blight, rot, mildew, scab, anthracnose, and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Prices: 1 lb. 25c; 4 lbs. 60c; not mailable.

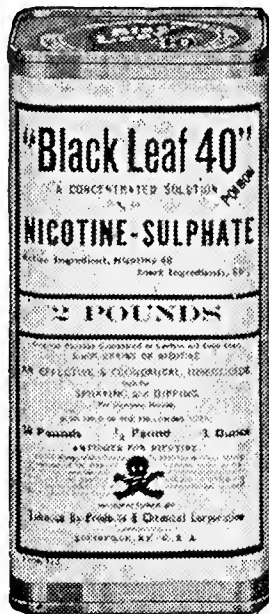
### Acme All Round Spray

All round spray contains the three leading remedies used by all large growers: Arsenate of Lead, Nicotine Sulphate and Bordeaux Mixture. 1/4 lb. 35c; 1 lb. 75c; not mailable.

### Acme Calcium Arsenate

The cheapest arsenical insecticide on the market but of great economy and efficiency for certain purposes. The accepted dust for boll weevil poisoning on cotton; also recommended to combat chewing insects. Prices: 1/2 lb. 13c; 1 lb. 22c; 4 lbs. 50c; 100 lbs. \$8.50; not mailable.

**ACME DUSTING SULPHUR**—For mildew, black spot on roses and other plant diseases. 3-lb pkt. 45c.



### Black Leaf "40"

A concentrated solution of nicotine sulphate for combating aphids or plant lice. 1-oz. bottle 35c; 5-oz. bottle \$1; 1-lb. can \$2.25; 2-lb. can \$3.25; 5-lb. can \$5.85; 10-lb. can \$9.85; not mailable.

### Tobacco Dust

Effective against cabbage fly and worms. Prices: Lb. 8c; 10 lbs. 60c; 100 lbs. \$5.50.

### Dry Milled Sulphur

Used as a fungicide, also for blight or mildew on roses. Prices: Lb. 10c; 3 lbs. 25c; 14 lbs. \$1; 100 lbs. \$5.

### Copper Sulphate (Blue Stone)

Used for making Bordeaux Mixture. Prices: Lb. 15c; 10 lbs. \$1.25; 25 lbs. \$2.50; 100 lbs. \$8.50.

**COPPERAS** (Sulphate of Iron)—A splendid neutralizer of alkali in the soil. Use 200 to 400 pounds per acre; also fine for lawns. Lb. 5c; 25 lbs. \$1; 100 lbs. \$3.50.

## Sure Death to Garden Pests

### Cutworms, Sowbugs, Grasshoppers, Slugs, Snails, Earwigs, Etc., Are Quickly Exterminated

**SNAROL** is a ready-prepared meal that you simply broadcast on the ground, under the vegetation. Pests eat it at night and are quickly destroyed.

**SNAROL** will not deteriorate from rain or sprinkling. Thus it lasts longer and is more economical. Requires no preparation. It is non-injurious to vegetation when used according to simple directions.

#### PRICES:

1 1/2-lb. packages	-----	\$ .35
3 -lb. packages	-----	.70
15 -lb. bags	-----	3.00
50 -lb. bags	-----	8.00



# SNAROL

## Cuprocide

### SEED PROTECTANT

A safe and effective fungicide used as a seed treatment for the prevention of "damping off." Many vegetable and flowers seeds are difficult to grow without loss of many of the seedlings from the fungous disease known as "damping off." Many times the soil is so heavily infested with fungi that the seeds rot before they have time to sprout and come up. To combat this fungous disease, coat or dust the seed with **Cuprocide**, which will keep the fungi away from young plants. Lb. 80c; 5 lbs. \$3.50.

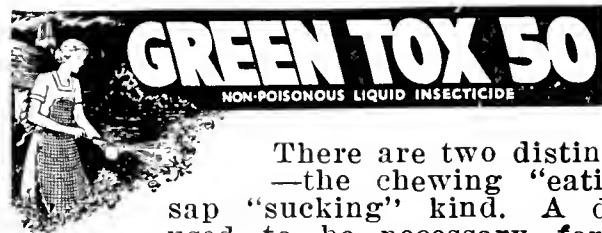


## Paradichlorobenze (P.D.B.)

A government-recommended control of the peach borer. Clean gum away from the tree trunk. Encircle the tree, two inches away from the trunk, with one ounce of P.D.B. and cover with fine dirt. Tramp down firmly. A weevil control (non-explosive) and more economical to use than High Life. Use two to three ounces in a barrel of grain. Should not be used on beans or peas that you desire to use for eating. Also recommended to oust moths out of beehives and clothes; acts as a deodorant. Prices: 1/4 lb. 15c; 1/2 lb. 25c; 1 lb. 45c.

### SPAGNUM MOSS

Used for hanging baskets of packing plants or bulbs for shipping purposes. Lb., 30c

**KILLS****Leaf-Eating and Sucking Insects**

There are two distinct classes of insects—the chewing “eating” kind and the sap “sucking” kind. A different insecticide used to be necessary for each class. Now “Green Tox 50” kills both. It kills the sap-sucking kind by contact and the chewing kind by stomach poisoning. “Green Tox 50” is non-poisonous to humans, animals and birds, but sure death to “chewing” and “sucking” insects. No danger from eating fruit or vegetables sprayed with “Green Tox 50”.

1 oz. ----- \$ .35—makes 30 quarts spray ready for use  
 6 oz. ----- 1.00—makes 45 gallons spray ready for use  
 1 pt. ----- 2.00—makes 120 gallons spray ready for use  
 1 qt. ----- 3.50—makes 240 gallons spray ready for use

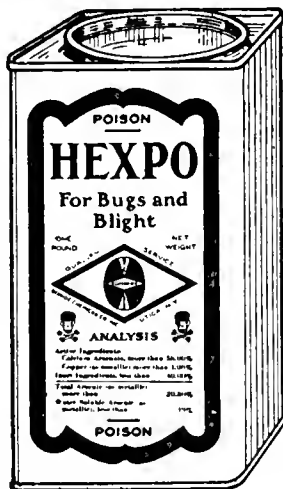
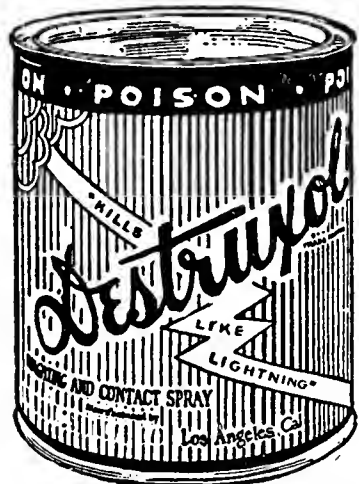
Mailable

**HEXPO**

Hexpo is an improved balanced combination spray for combating chewing insects and fungus diseases in one application. It is in dry powdered form and can be used as a dust or it mixes readily with water.

**DOUBLE DUTY (2-in-1) HEXPO** is the strongest and safest combined preparation to use for the prevention of certain fungus disease and chewing insects. It kills bugs and prevents blight at the one operation—a big saving in time and labor, the most expensive items of spraying. HEXPO should be used wherever possible to reduce spraying costs. It possesses superior suspension qualities, uniformity and fineness to any home-made combination. **Not mailable.**

1-lb. pkg. ----- \$ .35  
 4-lb. pkg. ----- 1.20

**Destruxol**

This is one of the finest sprays we know for use against such common garden pests as aphids, thrips, lice, red spider, leaf roller, hoppers, mealy bugs and mildew. It contains Nicotine Sulphate, Cyanide, etc., the Cyanide giving off fumes which reach insect life on the under side of foliage. Destruxol may be used at all seasons with entire safety although the warmer the weather, the greater is the fuming action. There is little chance of burning or checking growth and on roses or other hardy subjects, the solution may be used at double strength. Use 1 large teaspoonful of Destruxol to 1 gallon of water.

1 oz. makes 5 gallons spray ----- \$ .40  
 2 oz. makes 10 gallons spray ----- .65  
 1/4 pt. makes 25 gallons spray ----- .90  
 1/2 pt. makes 50 gallons spray ----- 1.65  
 1 pt. makes 100 gallons spray ----- 2.50  
 1 qt. makes 200 gallons spray ----- 4.25

Must be sent via express. Not mailable

**SHEPS PLANT SPRAY (NON-POISONOUS)**

Get rid of destructive insects. Use SHEPS Plant Spray. Kills and controls both sucking and chewing insects but absolutely harmless to humans, birds, animals and pets. Will not “burn” delicate leaves or flowers. Makes green, healthy, lustrous foliage. No soap solution needed—simply mix with water.

**PRICES POSTPAID**

2-oz. Bottle (makes 4 gals. Spray Solution).... \$ .35  
 8-oz. Bottle ( " 16 " " " )..... .75  
 Pint Bottle ( " 32 " " " )..... 1.25  
 Quart Can ( " 64 " " " )..... 2.00

1 1/2-oz. bottle ----- 25c

**WETTABLE SULPHUR**

To be used in water for the control of such fungicidal disease as are susceptible to sulphur. For stone fruit, use 2 to 4 pounds to 50 gallons of water. For apple and pear, use 3 to 8 pounds in 50 gallons of water. WETTABLE SULPHUR may also be used as a dust or mixed with Arsenate of Lead. Always add 4 pounds of Hydrated Lime to each pound of Arsenate of Lead when used either as a liquid spray or a dust.

Prices: Lb. 20c; 10 lbs. \$1.50; 100 lbs. \$12.50.

**Non-Arsenical Insecticides**

**KALITE**—A quick-killing dust for control of chewing insects. Contains no arsenic. Safe to use.  
 Prices: 1 lb. 35c; 3 1/4 lbs. \$1.00.

**Quicker, Safer and Easier**

**KALOIL**—For sucking insects, such as Aphis (plant lice). Kills on contact. Needs no soap or special preparation. Non-poisonous. Prices: 1 1/2 oz. 35c; 6 oz. \$1.00.



**KALO SPRAY**—An efficient, non-arsenical spray. Controls most chewing insects. Safe to use. Prices: 1/2 lb. can 35c; 4-lb. bag 90c. Not mailable.



**KALITH**—Replaces Lead Arsenate Spray for most uses on fruits and vegetables. Mixes readily with water. Usual strength for most purposes, 1 pound KALITH to 50 gallons of water. Prices: 1/2 lb. 35c; 4 lbs. \$1.75. Mailable.

Write For Complete Growers Guide.

**CUBOR**  
Plant Insecticide

**CUBOR** is a non-poisonous insecticide, adapted for the control of a wider range of leaf-eating and sap-sucking insects than any other single product. As a single broad use product, it replaces a majority of the materials formerly needed for specific pests. One pound will make from 25 to 100 gallons of spray according to strength needed. 1/2-oz. pkg., 10c; 2-oz. pkg., 35c; 1-lb. pkg., \$1.25; 4-lb. pkg., \$3.20.

**CUBOR DUST**—For Dusting—1-lb. pkg., 20c; 10 lbs., \$1.90; 25 lbs., \$4.50.

**ACME DAWG-GONE**

The purpose of Dawg-Gone is to keep dogs away from evergreens. Evergreens and especially arbor vitae are very easily burned, leaving them greatly disfigured if not entirely killed. DAWG-GONE is a combination of rare chemicals releasing an odor very distasteful to dogs.



Packed in Tubes.

1 Tube ----- \$0.35  
 3 Tubes ----- 1.00

**TREE TANGLEFOOT****STOPS ALL CLIMBING INSECTS**

**TREE TANGLEFOOT** is a sticky material for applying in bands around the trunks of trees and vines to combat the climbing and creeping type of destructive insect pests, effectively controlling Canker Worms, Climbing Cut Worms, Gypsy Moth Caterpillars, Browntail Moth Caterpillars, Tussock Moth Caterpillars, Bag or Basket Worms and Cut Ants. It remains effective three to four months, outlasting 10 to 20 times any other material.

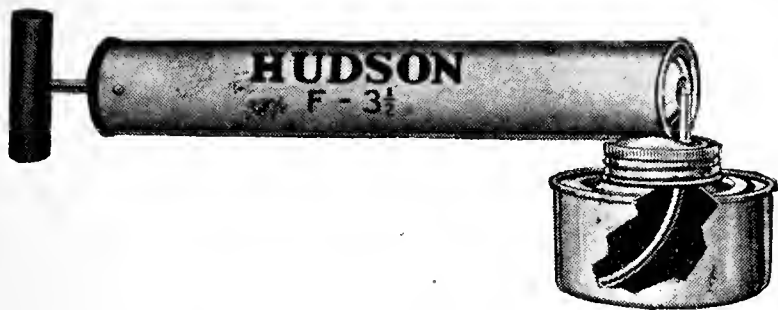
**RECOMMENDED BY AUTHORITIES**

Forestry experts, government experiment stations and large commercial orchardists the country over are included in our list of users and enthusiastic boosters of TREE TANGLEFOOT. Safe, Dependable, Long Lasting.

6-oz. can ----- \$ .25  
 1-lb. can ----- .60  
 5-lb. can ----- 2.75  
 10-lb. can ----- 5.25



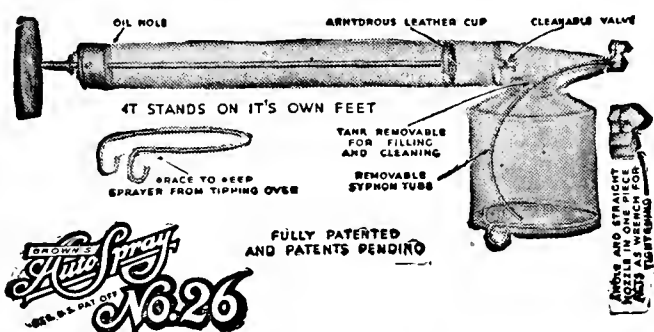
## Hudson Hand Spray Pump



These hand Spray Pumps are well made and especially adapted for use in and about the home. Handle all kinds of liquid satisfactorily.

No. F3½—Capacity, 3½ Oz.	\$0.15
No. G3½—Capacity, 3½ Oz., glass jar	.20
No. 202 —Midget, ¾-pt. Capacity	.30
No. 452 —Misty, 1-qt. Capacity	.45

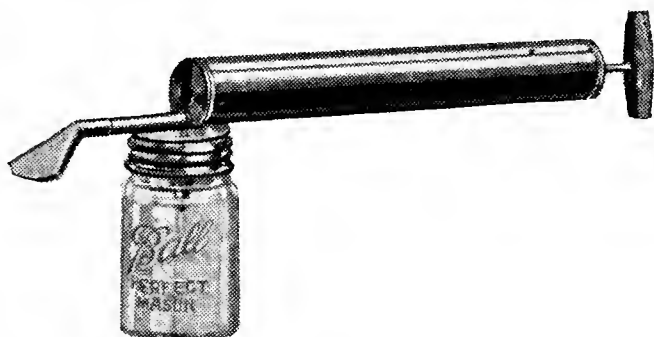
### It Sprays Continuously



The Continuous Sprayer has a feature which will give you a continuous spray as long as there is any air left in the tank, and for this reason is used a great deal, as it is not fatiguing to operate same.

No. 263 Continuous Sprayer (not postpaid)	\$1.25
No. 432 Hudson Continuous Sprayer (not postpaid)	.75

## Lowell Powder Gun



**LOWELL POWDER GUM**—This sprayer is easy of operation. Fill reservoir with dry powder, such as Hammond's Slug Shot, Bug Death, Paris Green, Hellebore, Powdered Arsenate of Lead, etc. Size of spray regulated by operation of plunger. Elbow reversible, enabling operator to spray up or down. Price, \$1.00.

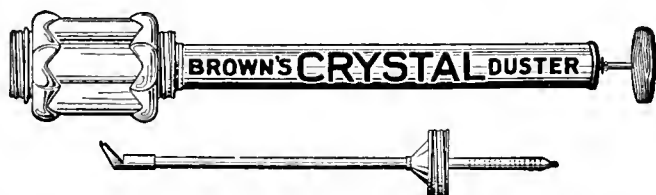
## Hudson Powder Duster



A strong constructed, very efficient duster for the home gardener. Dusts any kind of powder.

No. 651—Corporal, 1¼-in. diameter, 5-in. stroke	\$0.20
No. 660—Signal, 1½-in. diameter, 7-in. stroke	.30
No. 663—Cadet, 1¾-in. diameter, 8-in. stroke	.50

## Crystal Duster



A very practical, inexpensive duster of new design. It is of simple construction, single acting. **USES**—For spraying dust on small garden plots, rose bushes or in any place where dust is to be applied in small quantities. It is especially adaptable for use in applying insect powders. Shipping weight, 3 lbs. 1-qt. size, \$1.25.

## Brown's Atomist



The Atomist Lacquer Sprayer is adaptable for use in touching up around the house—for spraying furniture, small work automobile fenders and especially for quick touch-up jobs. The leather diaphragm prevents lacquer from clogging in the spray head and the removable valve cap on top of pump cylinder permits cleaning of ball valve. Made with lithographed pump cylinder and glass tank. This sprayer can also be used with disinfectants and insecticides. A valuable Sprayer around the home. Capacity one quart. Lithographed tin cylinder, glass tank, each \$1.25.

## Hudson Bucket Pump

The best all-around Bucket Pump on the market. Made of good heavy brass material, and will last a lifetime. It is the best all-around pump for the poultryman and gardener.

No. 122—Modoc	\$3.90
No. 132	4.00

Shipping weight 7 lbs.

## Angle Fog Nozzle

This nozzle is especially recommended for spraying the underside of the leaves of vine crops.

Each, 75c.

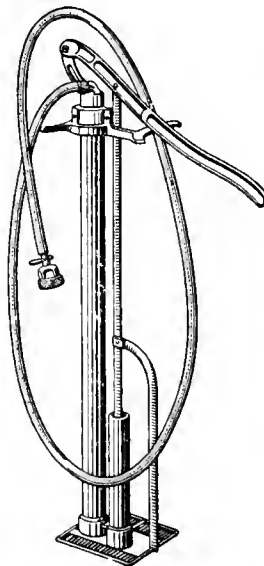
No. 60—White Wash Nozzle	\$1.00
No. 71—Bordeaux Nozzle	1.00



## Hudson Barrel Spray Pump

In our No. 4, we have developed a pump that will meet every requirement of a permanent Barrel Pump. It is powerful, light and durable and will develop better than 250 lbs. pressure with ease. Can be used with either one or two lines of hose.

No. 45-A—Outfit consists of No. 4 Pump, 6 ft. ¾-in. Sprayer Hose, Fog Nozzle, and a 4-ft. extension rod. \$12.00.



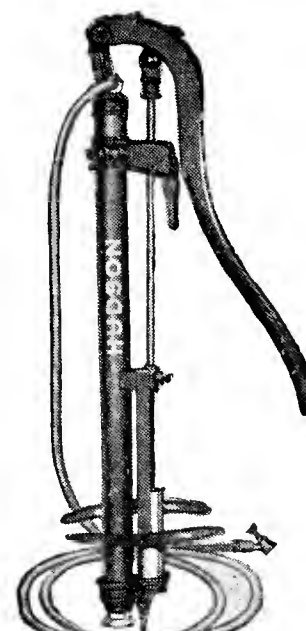
## Brown Barrel Spray Pump

**Brown's Auto-Spray No. 4**—

Because of its special design this pump is light in weight and consequently it is comparatively inexpensive. However, it is durable and sturdy in construction. Auto-Spray No. 4 accommodates one lead of hose although it can be used with an attachment for using two nozzles in a cluster. The long air chamber stores up reserve pressure so that nozzle throws a continuous spray. Agitator is

automatic in operation and functions as long as the pump is being operated.

Pump cylinder 1½ inches in diameter. Valves at bottom of pump are of brass and are in a brass casting. Plunger head brass. Casting on top of pump and air chamber of iron. Packing is a graphite composition. Shipping weight 25 lbs. Price \$12.00.



## Hudson Perfection Sprayer

Has a tank made like a steam boiler. The all-riveted seams give the necessary strength for developing high pressure which is absolutely essential for good results. This all-brass pump is placed inside the tank and is easily removed.

For work of any kind requiring a high pressure compressed air sprayer the Perfection is supreme. It can be used around the house and yard, in the barnyard and outhouses, on truck farms, in vineyard, potato, onion and melon fields, and all sizes of orchards. Shipping weight 12 lbs.



No. 140-G—Galvanized Tank, 2½ Gallons	\$4.95
No. 140-B—Brass Tank, 2½ Gallons	7.15
No. 110-G—Galvanized Tank, 4 Gallons	6.25
No. 110-B—Brass Tank, 4 Gallons	9.60

## Hudson Sterling Sprayer

**HUDSON ECONOMY SPRAYER**—Offers all the essentials of a high pressure compressed air sprayer at a minimum cost. Made of high quality material throughout, simplicity of construction with resulting lower costs permitting its attractive price. Adapted for all classes of work.

No. 115-G—Galvanized Tank, 3½ Gallons	\$4.60
No. 115-B—Brass Tank, 3½ Gallons	6.75

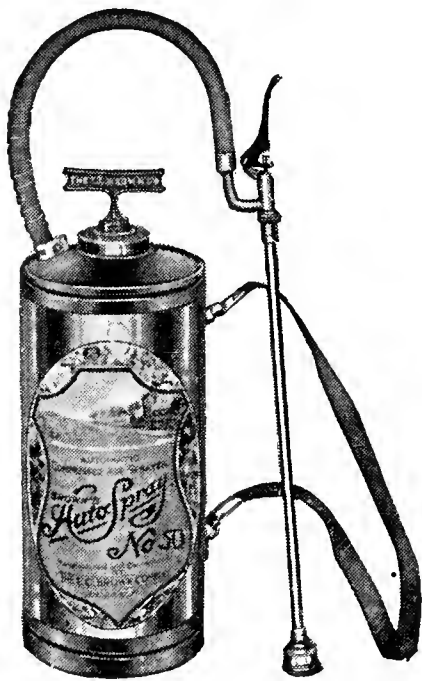
## Hudson Thrifty Sprayer

No. 120-G—Galvanized Tank, 2¼ Gallons	\$3.90
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## Brown Auto Spray

Has a tank made of heavy non-corrosive sheet brass or galvanized steel, air pump and syphon tube of seamless brass tubing; pump handle of sturdy malleable iron. The air pump located inside solution tank is made absolutely airtight by a locking device of collar and locking nut of brass. Capacity of tank 3½ gallons. Shipping weight, 12 lbs.

No. 9B—Brass tank	\$9.00
No. 9D—Galvanized tank	6.50
No. 50D—Galvanized 2 gal.	4.50
No. 50B—Brass tank 2 gal.	6.25
Shipping weight, 7 lbs.	

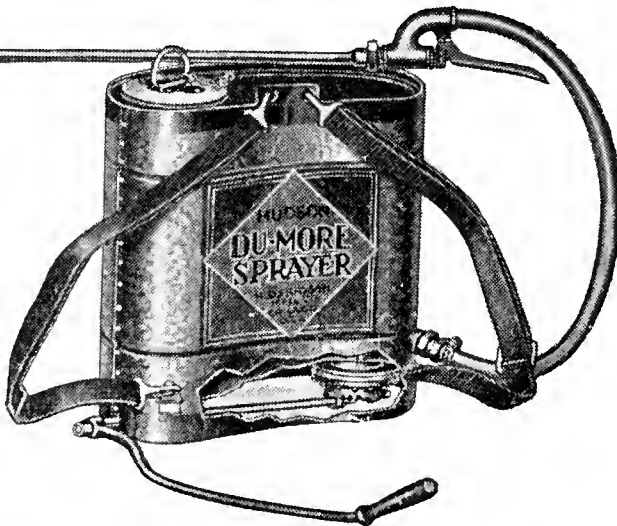


## Hudson Du-More Sprayer

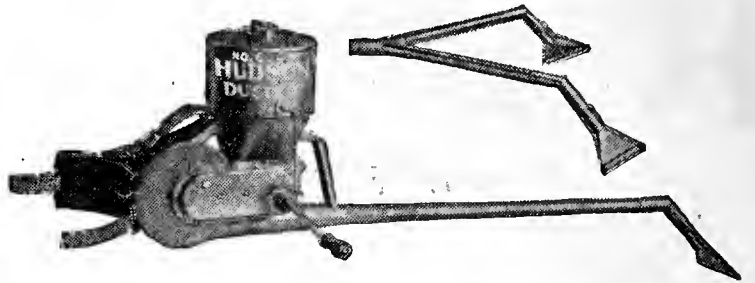
A new continuous, high-pressure Knapsack Sprayer with large air chamber made of brass.

Capacity 4 gallons. Discharge equipment, 3-ft. spray hose, 2-ft. iron extension rod, shut-off valve and brass angle fog nozzle. Shipping weight 10 pounds.

No. 147-G—Galvanized Tank	\$12.95
No. 147-B—Copper Tank	17.95



## Hudson Crank Duster



The No. 604 Duster develops an unusually powerful air blast. It delivers more than enough air at the nozzles to prevent clogging, and to break the powder into a fine dust. It has two agitators, one oscillating, one rotary. The oscillating agitator keeps the powder from caking in the hopper. The rotary agitator feeds the powder down into the delivery spout. Indicator has a very wide range of adjustment. Capacity, 5 to 10 pounds, depending upon density of powder used.

No. 600—Shipping weight, 15 pounds	\$13.50
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## Cyclone Seed Sower



A machine of very simple construction. This seeder will sow any seed that is sown broadcast, such as Oats, Wheat, Rye, Millet, Clovers, Grass Seeds, etc. It can be very easily adjusted to suit the seed being sown. We sell a world of them every year and our customers say they give good satisfaction. \$2.25 each, customers paying transportation charges. Mailing weight, 6 pounds.

## Efficient Garden Tools

are inexpensive. They save lots of labor and lots of bruises. They are well worth the small cost. When you send in your order for flower seeds order the trowels and other small supplies you need.

## Moe's Garden Trowels

No. 80 — Garden Trowel. One-piece pressed steel. Handsomely finished in baked enamel. Length of blade 6 inches. Ground and polished points. Each, 10c; shipping weight, 8 ounces.



## Moe's Transplanting Trowels

No. 81—Transplanting Trowel. One-piece pressed steel. Handsomely finished in black and baked enamel. Length of blade, 6 inches. Width 1¾ inches. Ground and polished points. Each, 10c; shipping weight, 7 ounces.



## Moe's Garden Weeder

No. 82—Garden Weeder. One-piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points. Each, 10c; shipping weight, 7 ounces.





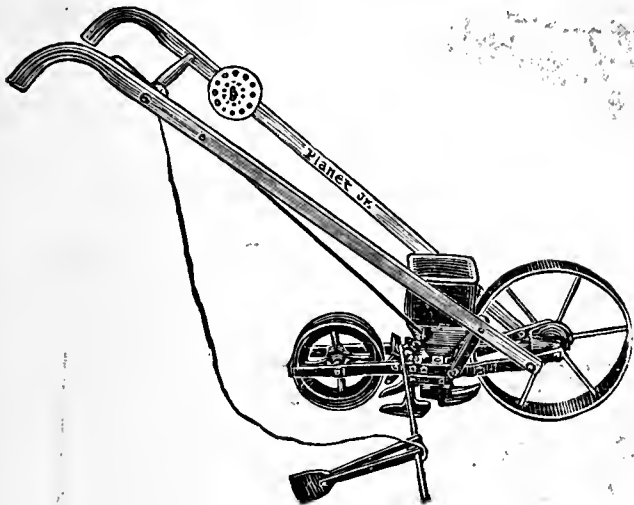
## Planet Jr. No. 4 Combined Hill and Drill Seeder and Single Wheel Hoe

The No. 4 is a combination of the most useful tools for a moderate sized garden. It plants almost all vegetable seed in continuous rows or in hills four, six, eight, twelve or twenty-four inches apart. A plow adjustable for depth opens a straight narrow furrow, the seeds are dropped in it, are covered and the soil firmed and the next row marked out all in the same operation. Converted into a Single Wheel Hoe by changing one bolt.

Cultivating equipment includes all the essential equipment for hoeing, weeding, cultivating, plowing, furrowing, ridging, etc. The tools are oil hardened and tempered and will wear almost indefinitely.

No. 4—Complete .....\$16.75  
No. 40—Planter only..... 13.50

## Planet Jr. No. 300-A Seeder



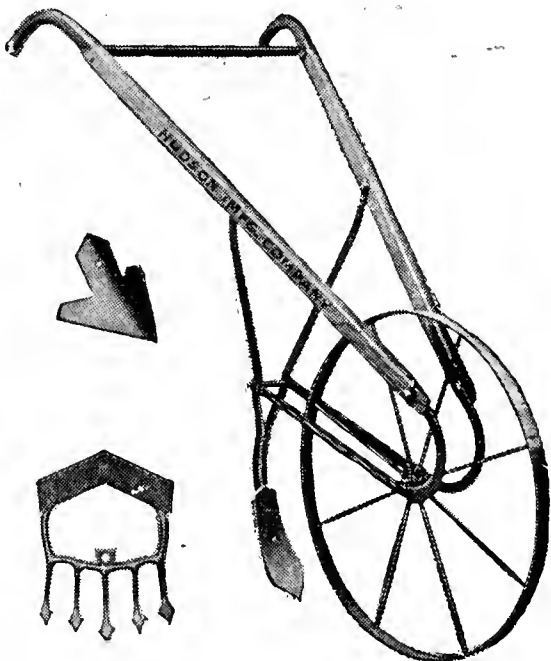
The No. 300-A sows through holes in a thin seeding plate; 3 plates each with 13 holes provides ample adjustment for any seed. Many exclusive features contribute to make this the most accurate and satisfactory seeder for commercial growers.

No. 300-A—Planter only.....\$18.75

## Hudson Garden Plow

A counterbalance plow, with a 24-inch high wheel made of the very best material and most careful workmanship. This is a good strong, durable tool and can be used in the largest gardens. Is very popular and the best of its kind. Shipped with tools as shown.

Weight 28 pounds.  
No. 242.....each \$3.75

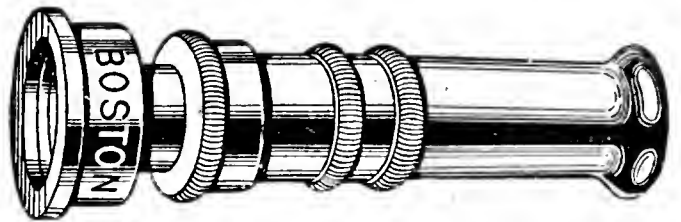


## Granulated Peat Moss

Something new which is just coming into general use. Imported Peat Moss is a brown, soft and spongy matter, formed years ago by the decay of mosses and other vegetable matter. It has high fertilizing value; holds moisture and is especially valuable for waxy lands. One bale is sufficient to cover 240 square feet one inch deep. The bale weighs approximately 140 pounds. Ideal for potting bulbs, either to be grown in water or under soil conditions. 5c per lb.; \$3.00 per bale, f.o.b. San Antonio.



## Hose Nozzles

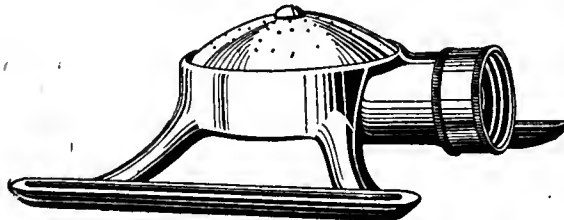


**HOSE NOZZLE**—Boston Pattern Brass Hose Nozzle. 75c each; shipping weight 10 ounces.

**PEORIA**—Same pattern as Boston but lighter construction. Shipping weight, 8 ounces. 65c each.

## Garden Sprinklers

**BROWN'S READY SHOWERS**—Is a very desirable Lawn Sprinkler where a revolving sprinkler is not required. The base is made of malleable iron and is



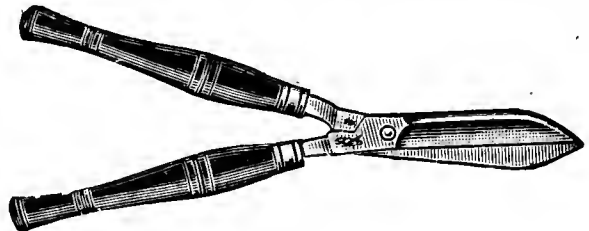
not easily broken; the perforated top is made of heavy sheet brass, as is hose coupling. We recommend this sprinkler for use in sprinkling flower beds, strips and

along the borders of walks. Can also be used in the hand as a rose nozzle. Each, \$1.00.

**REVOLVING SPRINKLER**—Can be used as a revolving or stationary sprinkler with adjustable tip to throw a misty or solid stream of water.....Each \$2.25

## Hedge Shears

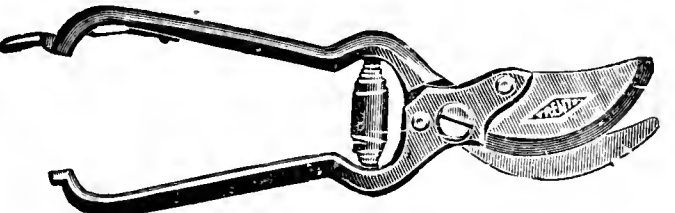
Blades hand forged crucible steel, notched, off-set shank. Tangs bolted clear through the wooden handles.



6 inch, Plain Handle, weight 4 pounds.....\$1.00  
6 inch Polished Handle, weight 4 pounds..... 1.40  
8 inch, Plain Handle, weight 5 pounds..... 1.40

## Pruning Shears

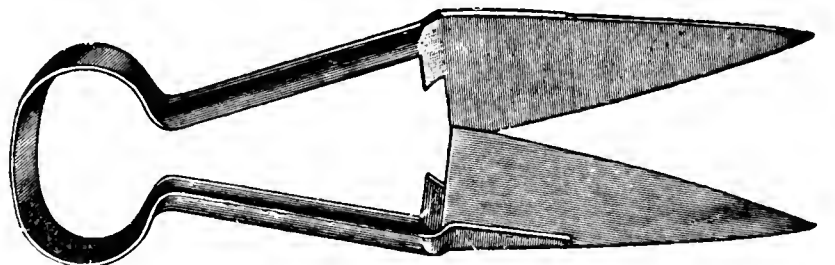
California pattern. Length, 9 inches, tempered tool steel blade. Volute spring. Adjustable ratchet nut. Black Japanned handles. Weight 1 pound. No. 313.....Each \$ .60



## Pruning Saw

**PRUNING SAW**—The ideal saw for pruning, having a 15-inch curved blade. \$1.25 each.

## Grass Shears



Hand forged from cutlery steel. Blades 6 inches long, ground and set, and full polish. Plain Hand Forged, weight 12 ounces.....\$0.35

## RAFFIA

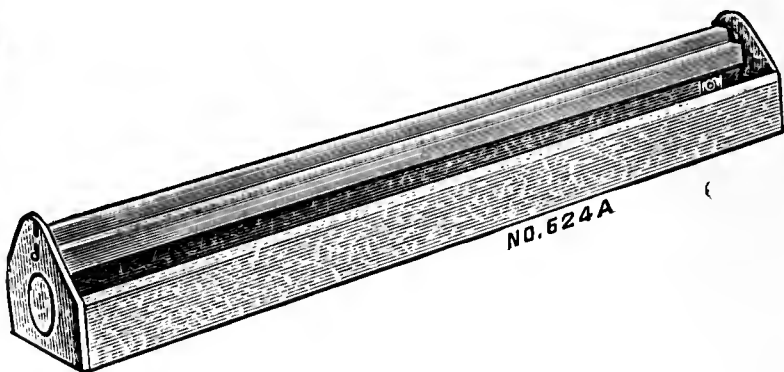
For bunching vegetables and tying flowers and vegetables to supports. We handle only the best grade. Lb. 45c; 5 lbs. \$1.75, postpaid. Not prepaid: 10 lbs. \$3.00; 25 lbs. \$6.50.

# POULTRY SUPPLIES

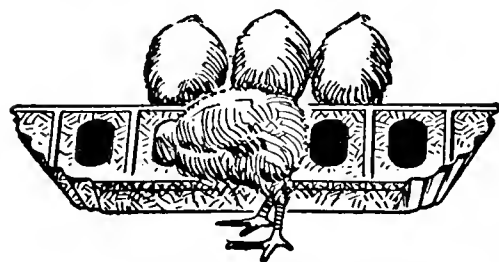
## Chick Trough with Reel Guard

This popular type of trough is 1½ inches deep and 3½ inches wide. Revolving reel has 2 plates with rounded edges to prevent injury of chicks. Chicks cannot roost on this feeder. Turned edge of trough prevents feed waste. Reel is adjustable. Permits using trough for different sized birds.

No. 624A—24-inch, each-----\$ .30



## \*Oakes' Chick Feed Troughs



These troughs are ideal for feeding chick starter to baby chicks. Trough is stamped out of one piece of heavy galvanized steel without seams. Very easy to keep clean. The grate is a separate piece and slides on and off easily. Prevents waste of

feed. Made of galvanized steel for dry feed and heavy charcoal tin for feeding milk.

### MASH FEEDER

- \*No. M-71—Galvanized, 10 inch, each-----\$0.15
- \*No. M-72—Galvanized, 20 inch, each----- .25
- \*No. M-71A—Tin, 10 inch, each----- .25
- \*No. M-72A—Tin, 20 inch, each----- .40

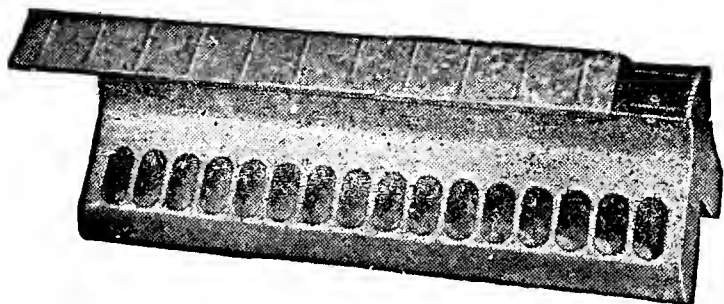
## \*Oakes' New Chick Trough



A new inexpensive chick trough. Made of galvanized iron with galvanized cross wire welded on. Ends are soldered on so that trough can be used for either feed or water. Easy to fill and clean. Cross wire prevents chicks from getting into trough or soiling feed.

- \*No. M-5120—18 inch, each-----\$ .20
- \*No. M-5124—22 inch, each----- .25

## \*Oakes' Inexpensive Chick Feeder



This feeder is made in three sizes, 21 inches, 35 inches and 42 inches in length. Sloping top prevents roosting and slides off for filling or cleaning. V-shaped bottom throws feed toward the outside and prevents clogging. 21-inch size has 32 feeding spaces; 35-inch size has 50 feeding spaces; 42 inch size has 68 feeding spaces.

- No. M- 36—21 inches, each-----\$1.15
- No. M- 37—35 inches, each----- 1.65
- No. M-375—42 inches, each----- 2.10

## \*Oakes' Feeder For Growing Chicks



Made of steel, 4 feet in length, capacity about 12 qts. Wires 2 inches apart prevent fowls getting into trough.

No. M-6A—Without lid -----Each \$1.75

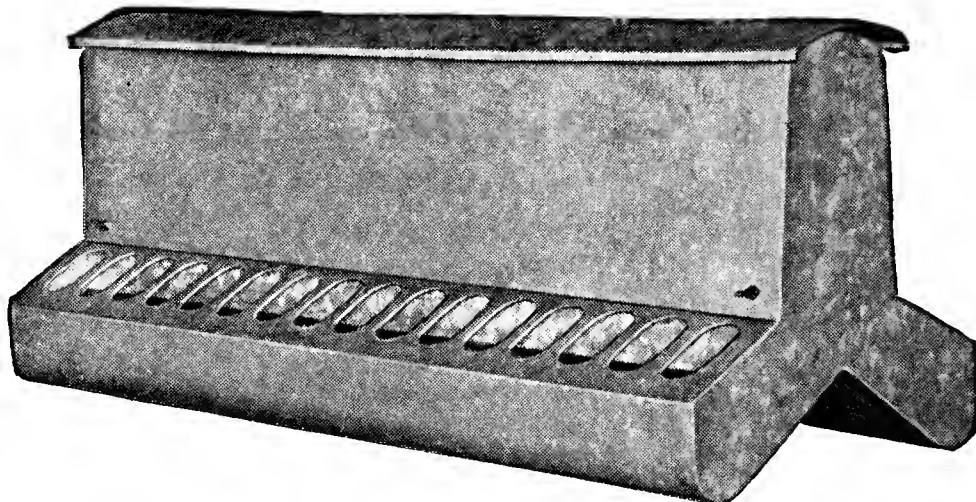
## Oakes' Capacity Chick Feeder



Saves time, labor and feed for large flocks of chicks. Double feeding space with 25 feeding spaces on each side; wires extend into hopper so that chicks in eating shake down the mash and prevent clogging; hinged lid on top; capacity 75 lbs. of mash; length 48 in.; height, 12 in.; width at bottom, 11 in.

- \*No. M-848—48-in. size, capacity 75 lbs. \$6.00

## \*Oakes' Growing Chick Feeder

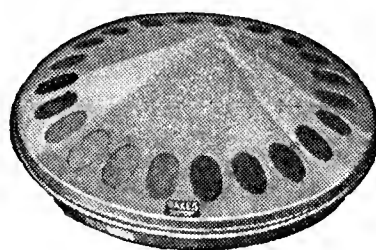


This new feeder is decidedly popular in all parts of the country for feeding dry mash and all kinds of ground feed to growing chicks and mature fowls.

fills from the top. Feed flange can be raised or lowered to feed either fine or coarse feed. Feed cannot be thrown out and wasted. Cannot clog, as all feed is forced out under the openings by the V-shaped bottom. Chicks feed from both sides. Lid is hinged. Tippler prevents roosting on top.

- No. M-29—Length 35 inches-----\$3.00
- No. M-30—Length 42 inches----- 3.90

## \*Large Round Buttermilk Feeder



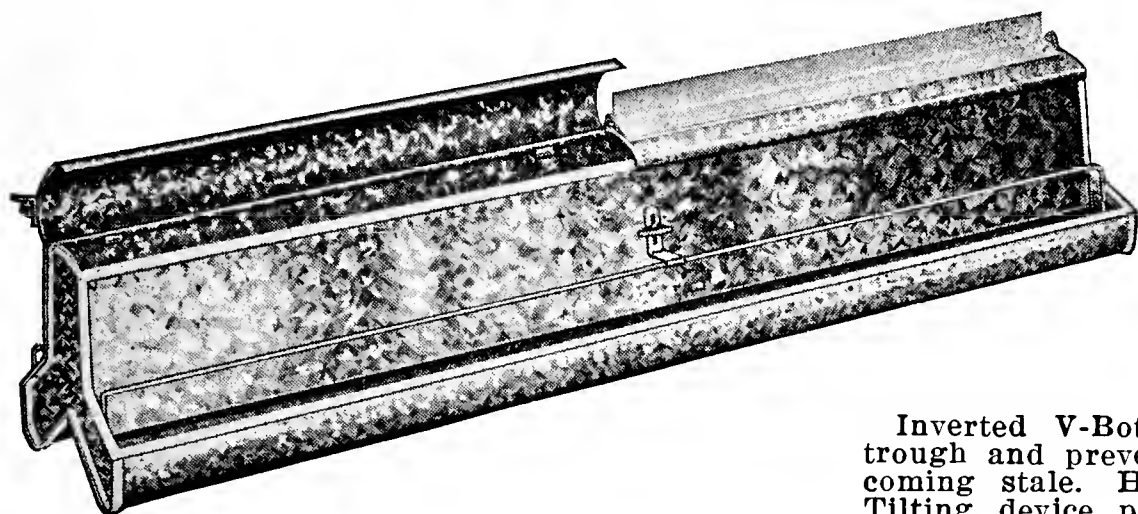
It is 12 inches in diameter and 1¾ inches deep. Holds three pints of liquid food. Made from heavy dairy tin; rustproof; has 22 feeding holes making 36 inches of feeding space. Chicks cannot waste the feed or get in it and get wet or contaminate the feed

or liquid. Top is cone-shape to prevent chicks from getting on it. Easy to take apart for cleaning.

- No. M-82—Each-----\$ .60

**GOOD POULTRY EQUIPMENT** of proper construction pays big dividends in the saving of feed and labor.





## \*Wire Guarded Chick Feeder

With Adjustable Wire Guard

This feeder will accommodate a large number of chicks at one time. The open trough principle is featured in this feeder. It accommodates a larger number of chicks at one time than a covered trough with individual feeding holes. The wire bar extends the full length of the trough. Adjustable up and down to regulate the width of the feeding space from chick size up to pullet size.

Inverted V-Bottom throws all the feed forward into the trough and prevents it from gathering in the center and becoming stale. Hinged lid makes it easy to clean and fill. Tilting device prevents roosting on top.

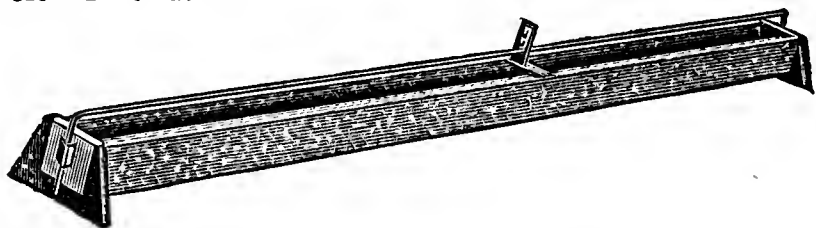
No. M-621—21 inches long, 11-qt. capacity, weight 5 lbs.	Each	\$1.05
No. M-635—35 inches long, 18-qt. capacity, weight 8 lbs.	Each	1.50
No. M-642—42 inches long, 21-qt. capacity, weight 10 lbs.	Each	2.00

## \*Square Bottom Non-Tip Feed Trough

For Baby Chicks and Growing Chicks

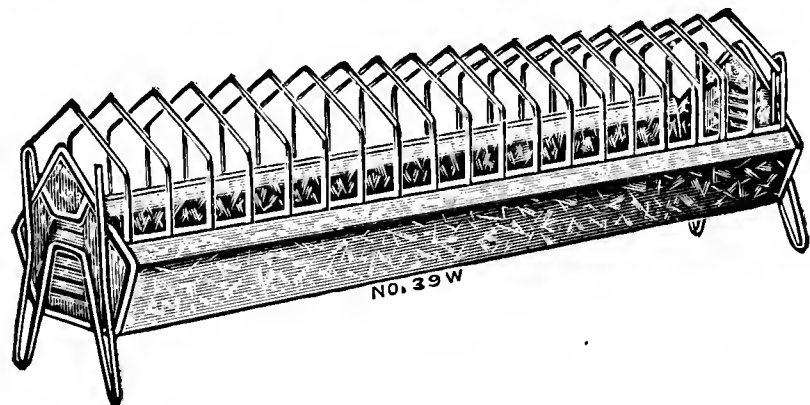
Made of heavy galvanized steel with spot welded ends. Wire guard running the length of the trough is adjustable. It can be lowered to keep baby chicks out of the trough, slightly raised for growing chicks and raised still higher for broilers and even for hens.

Because of the square bottom construction it is practical to set this trough up on bricks or board blocks as it cannot be tipped over if it happens to dislodge at either end.



No. M-624—24 inches long, each	\$ .35
No. M-636—36 inches long, each	.45
No. M-648—48 inches long, each	.60
No. M-660—60 inches long, each	.75

## Grill Top Broiler Feeder

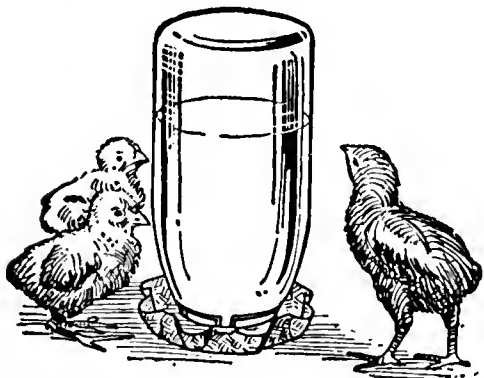


A convenient and durable feeder for growing chicks. The galvanized wire grill is hinged and swings back for filling and cleaning.

Trough is 6 $\frac{3}{4}$  inches wide and 3 inches deep. It is made in heavy galvanized iron or in bright charcoal dairy tin for milk feeding.

No. M-39W—28 inches long, galvanized, each	\$1.05
No. M-3942—42 inches long, galvanized, each	1.30
(With Adjustable Legs)	
No. M-40 —28 inches long, dairy tin, each	1.45
No. M-4042—42 inches long, dairy tin, each	1.80
(Without Legs)	

## \*Oakes Automatic Fountain and Feeder



A sanitary automatic device for water, grain, grit, etc. Fits half-gallon, quart or pint Mason jar. Pan is hinged to wire so it is not necessary to remove can in order to refill it.

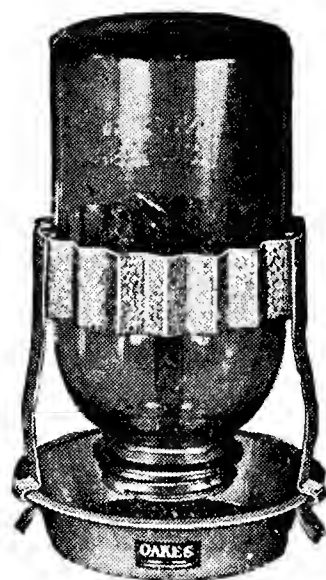
No. M-68T—Charcoal Tin; each	12c
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## Oakes' Buttermilk Feeder

A perfect feeder for sour milk, buttermilk, water, hard grain or grit. The container is made of aluminum, the only metal in which sour milk can be fed with safety. It is rust-proof and non-corroding. The Handy is adjustable, simple to operate and durable. Shipping weight, 1 lb.

Each 30c

No. M-70B—Holds $\frac{1}{2}$ -gallon jar.
No. M-70A—Holds 1-quart jar.



## \*Oakes' Jar Fountain

Made from 2 materials, extra heavy galvanized iron, charcoal tin. No solder used; very substantial pan with heavy rolled edge; electric welded center; can be used for chick feed as well as water. Charcoal Tin Fountain is designed for dispensing buttermilk and sour milk especially. We do not furnish the glass jars.

No. M-69—Galvanized; shipping weight 8 ounces;	
Each	\$ .10
No. M-69A—Charcoal Tin; shipping weight 7 oz.,;	
Each	.12

## Glass Pan Fountain

FOR USE OF MASON JARS

The drinking pan is of heavy glass with smooth edge. The Mason jar screws into the metal clip and is held firmly in position. The clip snaps over the outer edge of the pan. Jar and pan are quickly detached from the pan for filling or cleaning. An ideal fount for feeding buttermilk or medicated water. Saucer is 6 inches in diameter. Chicks cannot get into the pan.

No. 65-G	Each \$ .15
(Glass Jar Not Included)	



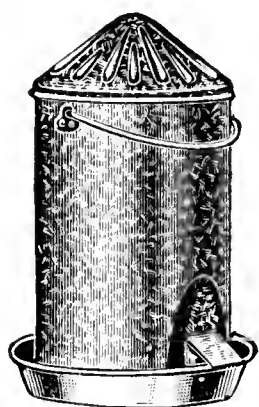
No. 67G—Galvanized pan with metal clip, each	\$ .10
No. 67T—Charcoal tin pan with metal clip, each	.12

## Bottom Filled Fountain



Consists of a cone-shaped can and a stamped pan, which forms trough from which fowls drink. Both parts made of galvanized sheet metal and well soldered.

No. K-78—1 qt., each	25c	\$0.19
No. K-79—2 qts., each	35c	.27
No. K-80—3 qts., each	45c	.34
No. K-45—1 gal., each	50c	.38
No. K-50—2 gal., each	\$1.25	1.01



### \*Valve Float Waterer

When this fountain needs filling all you have to do is lift the lid and pour the water in. An automatic float regulates the depth of the water in the drinking trough which extends all around the tank. Can't overflow and never runs dry as long as there is water in the tank.

Top-filled, sanitary and easy to clean.

No. M-505—Without heater, 5 gals.—\$3.50

No. M-512—Without heater, 12 gals.—6.00

### \*Leader Water Fountain

For Hens and Growing Chicks

This new type of fountain is made in two sizes—two-gallon and three-gallon capacity—just the right size to be easy to handle and at the same time provide an adequate water supply. It can be used for baby chicks, growing chicks or full grown birds because the bottom pan is properly shaped to prevent the chicks from getting into the trough but it's deep enough for the use of hens.

No. M-102—2-gallon Leader Fountain—Each \$1.05

No. M-103—3-gallon Leader Fountain—Each 1.35

### Hawes' Automatic Water Valve

THESE SIMPLE VALVES SOLVE THE WATERING PROBLEM



for watering  
poultry and  
small stock

At last, a trouble-proof water valve that works automatically! It is so simple in design, so perfect in operation you will marvel you did not think of it yourself. Easy to attach—nothing to get out of order. A hollow metal float rests on the surface of the water, and as level rises and falls, valve automatically closes and opens. This insures a constant supply of pure, clean drinking water—a vital factor in successful poultry and small stock raising.

Simplicity. Each—\$1.00

Combination with individual shut-off—each—1.25

### \*Oakes' Never Dry Waterer

Automatically controlled flow of water. Easily attached to hose or water pipe. Will take care of large or small flock. Nothing to get out of order. Fowls cannot scratch dirt or litter into it, nor get into the water, or roost on this device.

No. M-34—Each—\$4.90

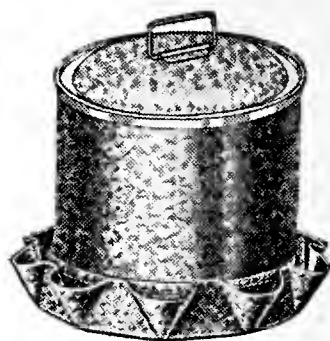


### \*Oakes' Snap-On Gallon Fount

Made from heavy galvanized iron in two pieces. Top made with handle for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling.

No. L-100B—1 gallon; shipping weight 4 lbs.—Each 60c

No. L-100C—2 gallons; shipping weight 6 lbs.—Each 95c



### \*Never Dry Chick Waterer



Connects with city water pressure or storage tank or barrels, providing a continuous supply of fresh water at all times. Float valve regulates flow. Perforated cover protects water and 25 holes allow plenty of drinking space.

No. M-21—Weight 4 lbs.—Each \$1.95

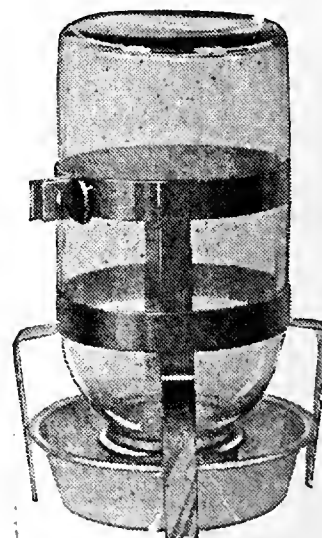
### Mason Jar Holder

This holder is so constructed that it will clamp around a Mason Jar and it may be adjusted either up or down to fit either earthenware or aluminum pan for buttermilk feeding.

Holder Only.

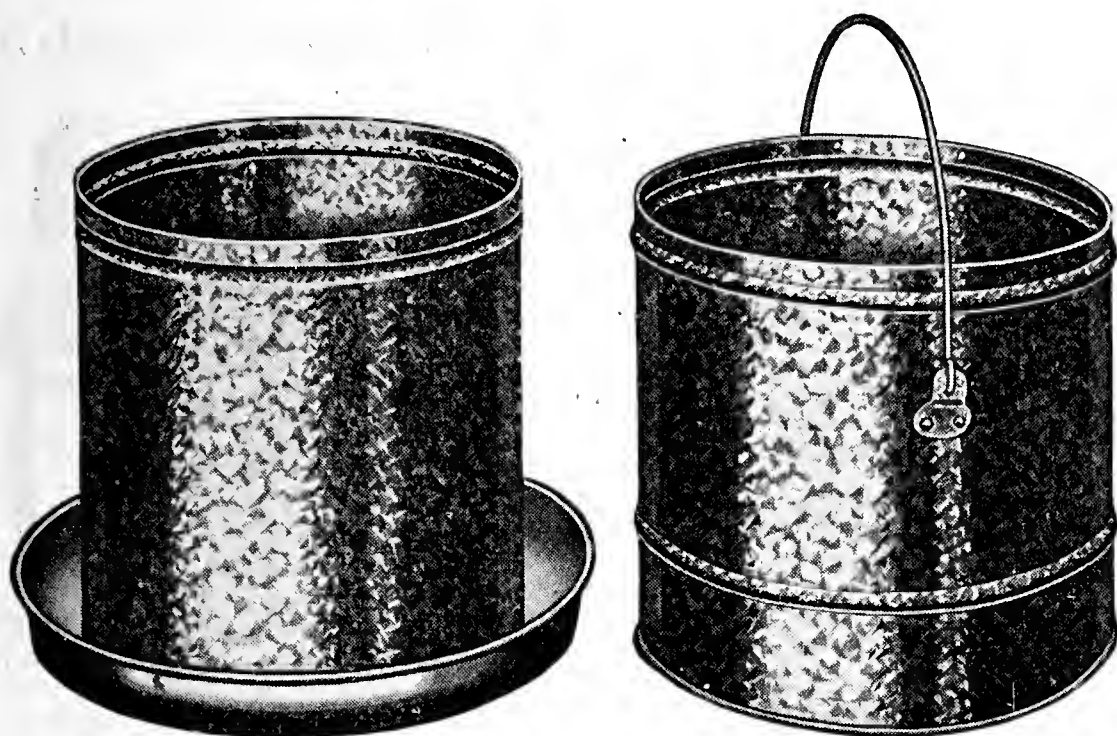
No. 71-A—1 quart size, 30c value, each—\$0.20

No. 71-B—1/2 Gal. size, 30c value, each—.20



All poultry supplies are quoted f.o.b. San Antonio. If you desire same sent by parcel post, kindly include postage with your order.





## Double Wall E-Z Fill Fountain

The heavy bail makes it convenient to carry water in the outer tank, but is held up out of the way when the waterer is in use.

This waterer is easy to fill and clean, and can be furnished with heater for winter use.

No. M-31—3-gallon size, each-----\$1.75  
No. M-32—5-gallon size, each----- 2.25

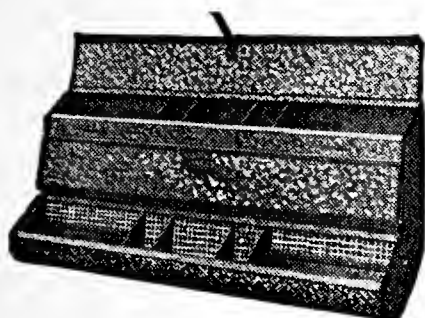
## Convertible Feeder

This popular type of trough is 2 inches deep and 3½ inches wide. Revolving reel has 4 plates with rounded edges to prevent injury to chicks. Chicks cannot roost on this feeder. Turned edge of trough prevents feed waste. Reel is adjustable. Permits using trough for differene sized birds.

Adjustable Legs.

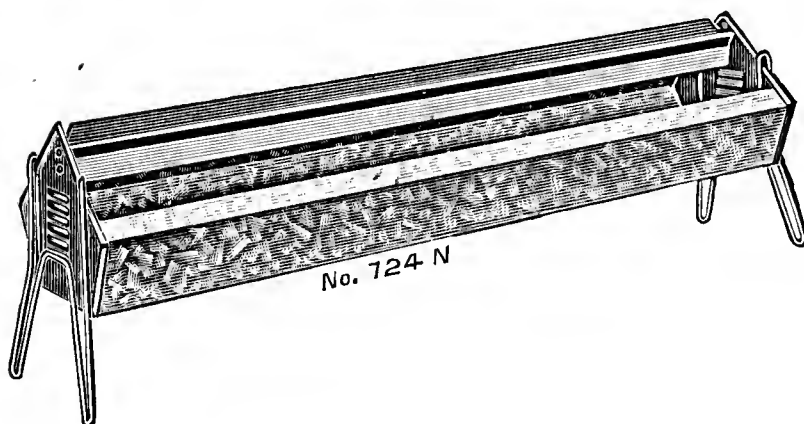
No. M-736S-----\$.75  
No. M-748S----- 1.00

## \*Improved Handy Hopper



Hinged lid keeps out rats, mice and dirt. Swinging front, adjustable to any kind or dry mash, eliminates clogging. Hopper 15 inches high, 4½ inches wide, and made in four lengths.

\*No. M-12, length 12 inches-----\$1.75  
\*No. M-13, length 18 inches----- 2.25  
\*No. M-14, length 24 inches----- 2.75  
\*No. M-15, five compart-ments, length 36 inches----- 3.90



WE STOCK A COMPLETE LINE OF POULTRY FEEDS. YOUR INQUIRIES ARE SOLICITED.

## \*Hanging Type Mash Hopper

This style hopper can be suspended from rafter in the laying house. It has very large capacity in proportion to the small space that it occupies.

The seamless bottom pan is 3½ inches deep and 16 inches wide. It provides more than 50 inches of trough space. The magazine is 16 inches high and 10 inches in diameter. It holds more than 32 quarts.

This feeder positively will not clog. The pans is attached to the magazine by three short lengths of chain. The jostling of the pan, as the hens eat, works the feed down into the trough. The feed pan has a turned edge which prevents feed from wasting.

No. M-110—Hanging Mash Hopper, 32-qt. capacity, weight 10 lbs. Each \$2.25

## \*Floor Type V-Bottom Feeder



This sturdy, sanitary floor type feeder has been thoroughly tried and tested in the houses of our foremost breeders. The revolving wood guard prevents birds from roosting on top.

The trough is 5 inches deep and 8 inches wide at the top.

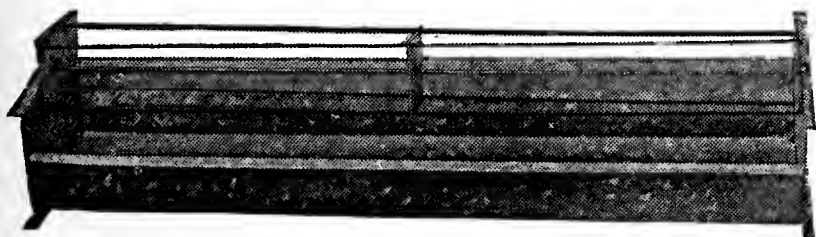
No. MV-5—60 inches long-----Each \$2.40



## \*Oakes' New Feed Trough For Large Flocks

This feeder has a revolving reel of galvanized strips to prevent hens from getting into trough and scratching feed out. Easy to clean. Four foot length holds 1 bushel of dry mash. Eight foot length holds 2 bushels.

\*No. M-26—48-inch, each-----\$3.00  
\*No. M-27—96-inch, each----- 5.00



## \*Oakes' Mammoth Round Feed Hopper

A compact, convenient hopper for feeding dry mash to large flocks. Round shape accommodates more fowls with less fighting and less muss. Seamless steel trough, 22 inches in diameter, 3½ inches deep, divided by partitions to prevent waste of feed. Capacity 100 pounds.

\*No. M10—65 qt. without stand \$7.50.

\*No. M11—65 qt. with stand as shown \$8.25.

\*No. M511—36-quart without stand \$3.50.

\*No. M510—36-quart with stand \$4.00.



## \*Oakes' Feeder For Large Flocks



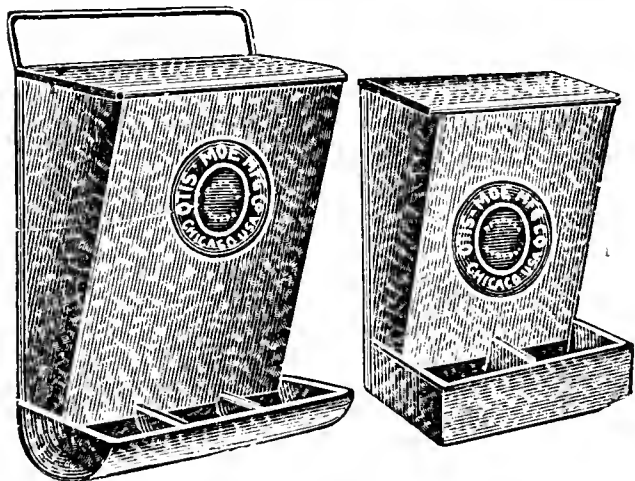
Capacity with minimum expense. Lighter in weight and more sanitary than troughs made of lumber. Wires are 4 inches apart to prevent wasting feed. The 8-foot

trough has a capacity of 2 bushels, the 4-foot 1 bushel.

\*No. M-1A—Without lid, 96-inch-----\$4.80

\*No. M-4A—Without lid, 48-inch-----2.60

## Grit and Shell Boxes



Grit, shell and charcoal have now become a recognized essential part of the diet insuring healthy fowls. They cannot be more economically supplied than in one of our inexpensive compartment boxes. Can also be used as a feed hopper for little chicks.

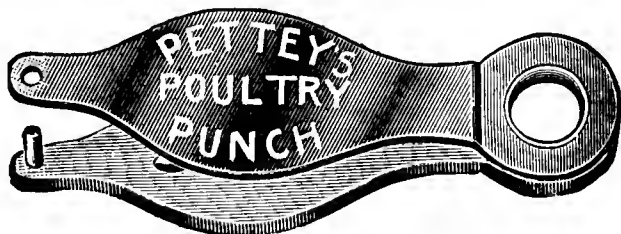
No. 45—For baby chicks, each-----\$0.45

No. M73—For baby chicks, each-----.85

No. 46—For grown birds, each-----1.10

Shipping weight, 3 lbs.

## Oakes' Poultry Punch



A popular and practical punch. Makes a clean perforation and does not bruise the foot.

No. 38—Oakes' Punch, each, 2 oz.-----\$0.20

## Moe's Ideal Poultry Punch



A new improved punch. Works easily, cuts clean, and does not pinch the foot. Length 3½ in. Nickel plated.

No. 39—Moe's Ideal Punch;  
Each -----\$0.35

## Oakes Best-Yet Self-Feeder

Saves poultryman's time, labor and feed. Strong and durable.

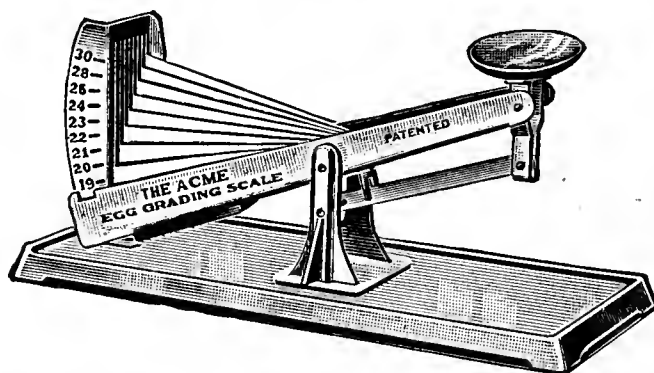
Made of heavy galvanized steel. Fowls feed from either side thus doubling feeding space. Length, 36 inches; capacity, 100 pounds. Stand elevates feeder 16 inches from floor. Has adjustable grate which feeds any mash uniformly. Provided with hinged lid over both hopper and trough,

making it rat, mouse and dirt proof. Great feed saver.

\*No. M-55—With stand as shown above, each-----\$10.75



## Acme Egg-Grading Scale



Acme Egg-Grading Scales will accurately grade all eggs ranging from 16 ounces per dozen to 32 ounces per dozen. Made entirely of aluminum. Shipping weight, 3 pounds.

Price, each-----\$3.00

## \*Oakes' Egg Scale



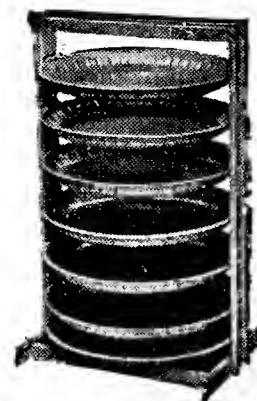
In many localities eggs are now being bought and sold according to weight. Indiana has been using 22 ounces to the dozen eggs; just right for our No. F-53, while No. F-54 will fit any standard. Oakes' Egg Scales are durable (constructed of steel) and simple; no springs—nothing to get out of order.

No. K-55—Oakes' Graduated Egg Scale, each-----75c

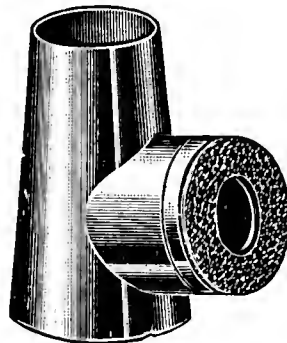
## \*Oakes' "Sun-Lite" Oats Sprouter

Made of galvanized iron, each 18-inch perforated pan or tray can be removed separately. No lamp or fuel required. Put in the oats, moisten a little daily and in three or four days you can feed sprouts.

\*No. H-63—6-tray; each-----\$6.50



## Oakes' Egg Tester



K-131—Used to test fertility of eggs during first week of incubation. Use on an ordinary lamp No. 2 burner, in a dark room. It will illuminate interior of egg so that you will know if the chick is alive. Also shows size of air cell. Each 25c.

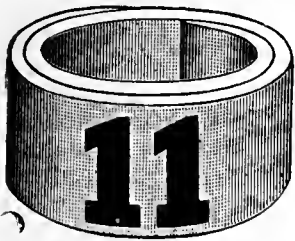
Shipping weight, 1 lb.



LEG BANDS FOR POULTRY

\*Bandettes

Bandettes are easily applied single-handed, simply open out Bandette, hook it on leg, and allow it to close around the bird's leg; should not fit tight.



Bandettes are made in 5 colors: blue, red, yellow, green and pink. Two sizes: No. 9 for Leghorns, and No. 11 for Rocks, Reds, etc. Bandettes are sold in unbroken sets of 25 in one color: 1-25, 26-50, 51-75, 76-100, and so on.

25	-----	\$ .60
50	-----	1.10
100	-----	2.00
500	-----	9.50
1000	-----	18.00

\*Colored Leg Bands



Made of celluloid, in fast colors. Keep their shape. Light in weight and very durable. Quickly put on or removed. Put up regularly 50 bands or a size and color in a bundle. Colors: white, black, red, pink, green, blue, purple and yellow.

	50	100	1000
No. 4—For Baby Chicks	\$0.25	\$0.40	\$3.50
No. 7—For Bantams	.35	.60	5.00
No. 8—For Leghorns and Anconas	.35	.60	5.00
No. 11—For Large American	.40	.75	6.00
No. 12—For Asiatic Hens	.45	.80	6.50

\*Wing Bands



Wing Bands—Double clinch open.....Each 1c; 100, 75c  
Sealed.....Each 1c; 100, 85c

\*Economy Poultry Bands



Poultry Sizes. The Standard poultry sizes with two large black numbers from 1 to 100, with black ink on celluloid. Size No. 2 (for Pigeons), Size No. 3 (for Leghorn hens), 3c each. Size No. 4 (for Rhode Island Red, Plymouth Rock, and Orpington Females and Leghorn males); 1/2 inch wide, 2 1/2 inches long from slot to shoulder. 3c each; 100, \$2.25. Shipping weight, 8 oz.

Aluminum Pigeon Bands

Made of aluminum with stamped numbers.  
Open .....Each, 1c; 100, \$0.80  
Closed .....Each, 2c; 100, 1.75

\*Moe's Aluminum Leg Bands



Made of sheet aluminum with large raised numbers, easy to read from a distance. Adjustable for any size fowl. Numbered 1 to 4999, as wanted.

12 bands	-----	\$0.15	100 bands	-----	\$0.75
25 bands	-----	.25	500 bands	-----	3.50
50 bands	-----	.40	1000 bands	-----	6.00

Kwik-On Leg Band

The Newest Leg Band — Aluminum

These bands are made of aluminum in six colors: red, green, blue, orange, yellow and black. They are light in weight, extremely easy to put on and very durable.

These bands are tough—not brittle—and with any reasonable care they will last indefinitely and they will not come off. They are packed 100 of one color in a box.

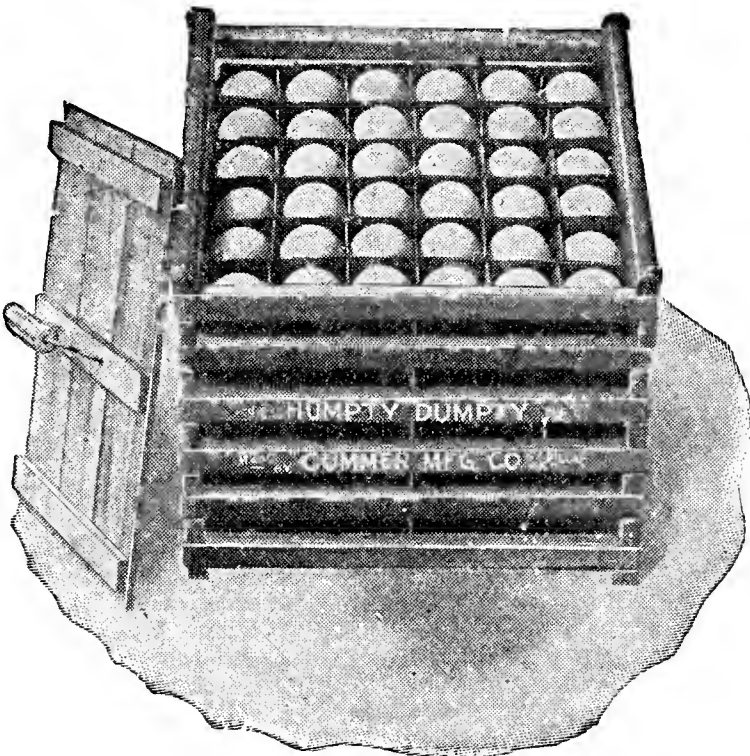
Delivered Prices

	25	50	100	500	1000
Size 9	-----	\$ .20	\$ .30	\$ .55	\$2.35
Size 11	-----	.25	.35	.65	2.50
					4.50

Glass Nest Eggs

Made of white porcelain, natural in appearance, and uniform in size. Will not easily break. They induce the hen to lay where she should—in the nest.  
Weight 1 lb., per dozen.....30c

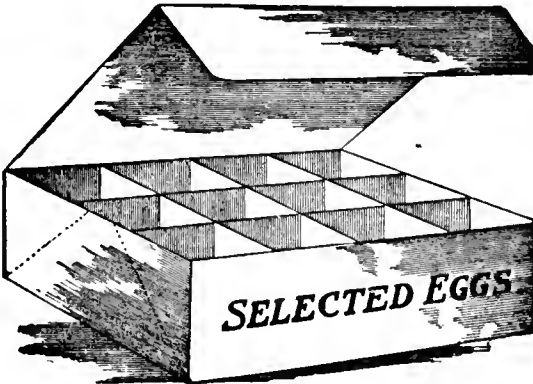
Humpty Dumpty Egg Carrier



A very light, strong and convenient egg crate and carrier. Made of hard wood slots securely fastened. The lid with handle, springs into position when crate is filled. Collapsible, 12 dozen size. 90c; Parcel Post weight, 7 lbs.

Yard Egg Boxes For Retail Trade

This is an ideal box for the retail egg trade, holding 1 dozen, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape.

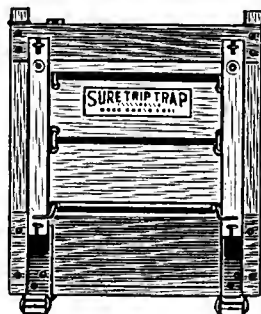


3x4 Eagle, weight 12 lbs., per 100	-----	\$ 1.00
3x4 Eagle, weight 105 lbs., per 1000	-----	8.50
2x6 Seminole, weight 17 lbs., per 100	-----	1.50
2x6 Seminole, weight 155 lbs., per 1000	-----	13.50

NOTE—We can get any style leg band you desire and numbered up to 1,000; it will take from 1 to 2 weeks to fill these special orders. 25% of amount of order is required when sending in order. Mail us sample or picture of band desired if not listed in this catalog.

## Sure-Trip Trap Nest Front

The Practical Trap Nest is a profitable addition to every poultry plant, because it weeds out the drones and cuts down the feed bills for the man who wants to keep only those birds that produce. Strongly built of good lumber, as light in weight as consistent with strength and durability—with a trap that works noiselessly and surely. Each, 35c; 100, \$30.00. Weight, 1 lbs. each.



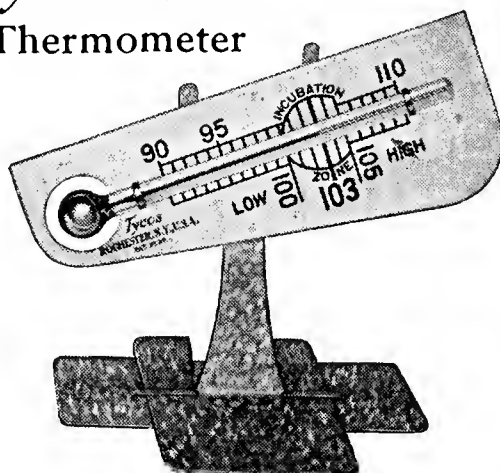
## Tested Incubator Thermometers

No. 5776

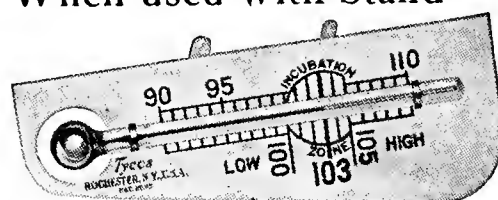
*Tycos* Incubation-Zone Thermometer

No. 5776—Incubator Thermometer—genuine “Tycos” on flexible brass legs. White figures and graduations on black finished scale. Packed 1 in box, shipping weight 6 ounces.

Each ----- 75c



When used with Stand



When used without Stand

No. 90—Incubator Thermometer—mounted on porcelain stand and frame, with black engraving. Easy to read. Packed 1 in box, shipping wt. 6 ounces.

Each ----- 75c

No. 80—Incubator Thermometer—each ----- 50c

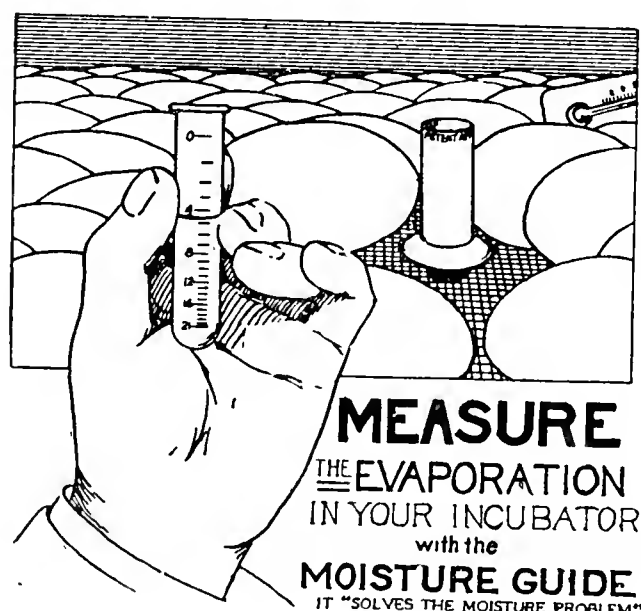
## Brooder Thermometers

No. 5792—Genuine “Tycos” Thermometer. To be inserted through a hole in the top of the brooder so the bulb is in the actual brooder temperature, and the scale is outside for easy reading. Weight 6 oz. Each 75c

No. 54405—Brooder Thermometer. To be hung on canopy. Each ----- \$ .45

No. 125—Buckeye Brooder Thermometer. Each ----- 1.25

## \*Patterson and Young Moisture Guide



This moisture guide solves the moisture problem with your incubator. The holder is fastened to the egg tray and the guide is filled with water to the top line. The graduated scale shows how much moisture should evaporate from the egg each day. If evaporation is too fast, moisture should be added; if too slow, more air should be given. Full directions go with each guide. Attachments are included for all turning trays. Every owner of an incubator should have this moisture guide. Weight 3 oz. Each, \$1.00.

## HATCHERY SUPPLIES

### Anderson Chick Boxes



The Original Anderson Master Breeder Baby Chick Pullman

Light in weight yet the strongest and safest chick box made. A very attractive checkered border box with a light blue inside liner. The result of 25 years' chick box building. Approved by all Baby Chick Associations.

#### REGULAR SIZE

25-chick size, each ----- \$0.15  
50-chick size, each ----- .20  
100-chick size, each ----- .25

Chick Size—	Up to 100	100 to 500	500 to 2000
A-100—Standard -----	\$0.18	\$0.16	\$0.14
A-50 —Standard -----	.12½	.11	.09½
A-25 —Standard -----	.08¾	.07¼	.06¼
HW-100—Hot Weather -----	.20	.18	.16
HW-50 —Hot Weather -----	.13	.11½	.10¼
SF-100—Stickless Feed-o-box -----	.19¼	.17½	.15½

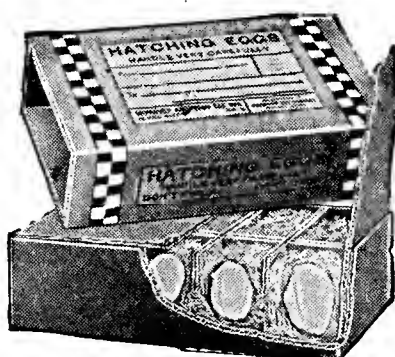
#### SMALL LOCAL COUNTER CHICK BOXES

L-15—15-chick size per 100 ----- \$2.30  
L-25—25-chick size, per 100 ----- 3.05

Full freight allowed on Chick Boxes provided shipment weighs 100 pounds or more. Freight allowance does not apply on Chick Box Supplies.

#### STAPLERS AND STAPLES

ACME No. 11—Hand Powered Stapler, holds 100 staples, automatic feed, anti-clogging device, shipping weight, 9 pounds; price ----- \$9.00  
No. XX—Staples, box of 5,000 ----- 1.55  
No. 61—Staples, box of 5,000 ----- 1.60  
Tin Hand Staples, per box of 1,000 ----- .90  
Piercing Tool for use with tin or copper coated staples, to guide the staples into the box. Each .. .40  
Master Breeder, 6-in. Redwood Sticks, per 1,000 ----- 2.60  
Master Breeder Stick Glue, per 1-gallon can ----- 1.00  
Wood Wool Pads, 9x11, per 1,000 ----- 7.60



### Anderson Egg Boxes for Shipping

Made of extra heavy corrugated cardboard; built so as to stand rough handling and carry your setting eggs safely.

15-egg size, weight 1½ lbs., each -----	\$0.30
15-egg size, weight 15 lbs., doz. -----	3.00
30-egg size, weight 2½ lbs., each -----	.35
30-egg size, weight 26 lbs., doz. -----	3.60
50-egg size, weight 3½ lbs., each -----	.50
50-egg size, weight 39 lbs., doz. -----	4.50

## \*Oake's "O. K." Fountain Heater

Suitable for any kind of drinking fountain and for any size up to four gallons. Insures warm drinking water at all times. Heater of galvanized iron with chimneyless kerosene burner—stands firmly, and fowls cannot overturn it.



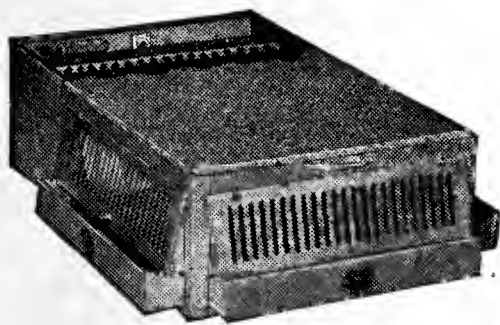
No. L44, each, \$1.75

## \*Brooder Lamp

A heavy, two-quart capacity lamp bowl, equipped with a No. 2 Zenith Burner. This lamp is used where a warm floor brooder or small brooder is desired.

Each ----- \$1.25





Oakes "Gro-Ezy" Electric Brooders

This sturdy product embodies many of the best features to be found in any Battery Brooder. It is substantially built. Mounted on casters for portability. Each drawer or shelf is a separate independent unit and can be used outside the portable rack.

Each drawer slides out of the frame as a complete unit. The woven wire floor of 1/2-inch mesh is finished in bright tin. This floor is not to be compared with the dingy hardware cloth ordinarily used. Droppings cannot catch and hold on wire intersections. A deep dropping pan is just underneath the floor with 1 1/2 inches of clearance. Pan is easily removed.

The chicks eat from open troughs. Every chick has a chance to get its fill. A chick will go to an open trough every time in preference to eating or drinking through holes or between wires, or bars. In each "Gro-Ezy" drawer there are two 20-inch feed troughs and one 20-inch water trough. These troughs are open their entire length. The feed is easily accessible and yet the chicks cannot get into it or foul it.

Chicks always see the feed but no feed is wasted. Doors lift up and drop into slots in the ends of the trough, providing an adjustment of the feeding space from 1/2 inch to 1 1/2 inches in width. This is ample room for chicks from a day old to ten weeks old.

Each drawer is 35 inches deep, 22 1/2 inches wide, and 9 1/2 inches high. Chicks can be carried to 8 weeks.

The lid is removable. Canvas curtain is attached to lid and divides the drawer into two parts.

Electric heating elements and Thermostatic Control are attached to back panel behind the canvas curtain.

No. M-703—3-drawer brooder, complete with stand, weight 152 lbs., shipped K.D.-----List \$38.00

No. M-701—Drawer only, complete with heating element, automatic thermostatic control and plug socket, weight 34 lbs.-----List 10.00

Liv-an-Gro Brooder

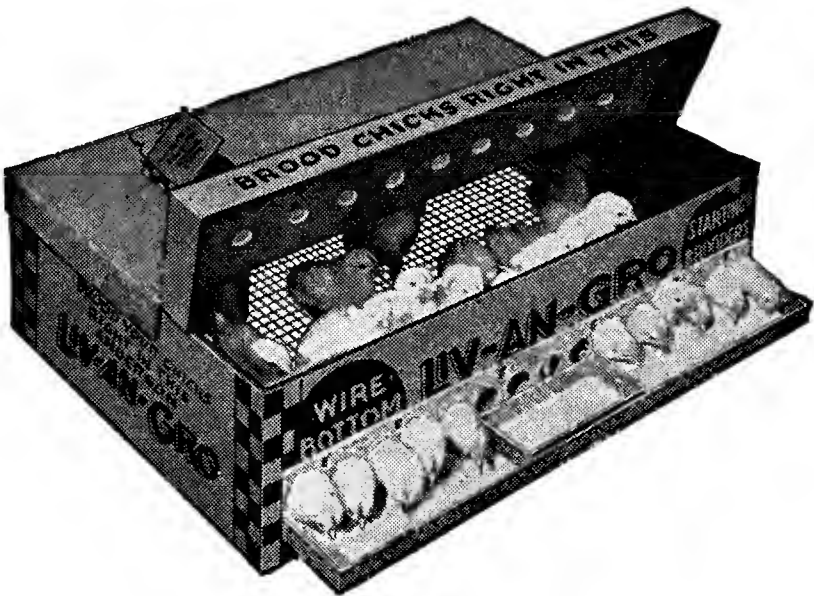
These brooders are built to raise a small flock of chicks of not more than 50. Where a person does not desire to go to a great expense for brooder when they only wish to raise a small flock. Side walls and top are constructed of heavy corrugated cardboard with a smooth finish. Bottom is made of hardware cloth so that chicks are kept off the floor and creates a sanitary condition. Brooders come equipped with water and feed trough. May be heated with charcoal or electrical current. If you have electrical current, advise the electrip heat. This brooder comes equipped with a complete drop with 8 foot of cord. Size of brooder 18x22x6. Kindly specify kind of heat desired when ordering, charcoal or electrical.

Each ----- \$1.50

CHARCOAL STICK FOR LIV-AN-GRO BROODERS

Each ----- \$ .10

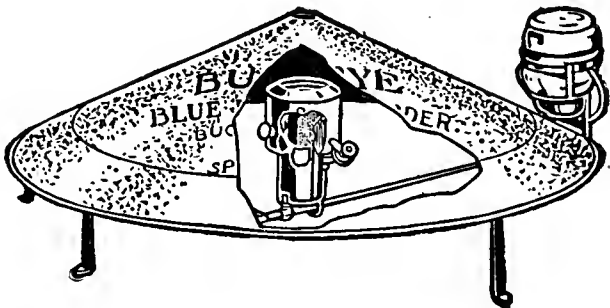
Dozen ----- .80



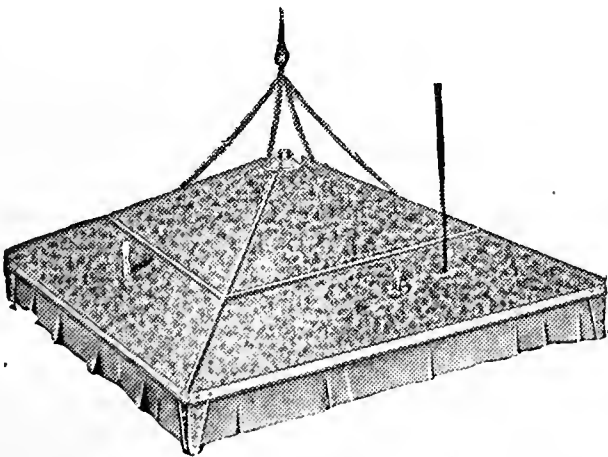
\*Buckeye "Colony" Brooders Raise Every Available Chick

The Buckeye Oil-Burning Brooder has the new improved Burner that gives the maximum amount of heat with the minimum consumption of oil. It is a wick burner and the oil is fed by gravity. Buckeye is self-feeding and self-regulating; it doesn't clog; it doesn't flare up; it doesn't go out. Can be safely operated on any floor. Has "Diafram" Heat Conveyor, so attached to the canopy that it insures the radiation of heat to the very outside of the brooding area.

	Capacity	Canopy	Shipping Weight	Price
No. 27-A -----	200 chicks	34-inch	49 lbs.	\$14.75
No. 80 -----	350 chicks	42-inch	50 lbs.	15.50
No. 81 -----	500 chicks	52-inch	60 lbs.	16.50



\*Oakes' New and Improved Electric Brooders



The canopy and legs are made of high quality galvanized steel of four pieces bolted and spot-welded together. The 32-inch canopy will support the weight of an average sized man.

Top is lined with asbestos and has Celotex deck above the heating element to retain the heat, in the 32 and 42 inch sizes. In addition to the Celotex insulation there is a metal heat deflector which distributes the heat.

Ventilation is provided through a series of draft chutes located above the heating element.

Each brooder is equipped with special Wafer thermostat and electric cut-off switch provides automatic regulation of the heat at all times.

Special thermometer, eight feet of drop cord, curtains, and pilot light furnished as regular equipment with all brooders.

No. M-722—22-in. Brooder complete, 75 chick-----	\$ 9.00
No. M-732—32-in. Brooder complete, 150 chick-----	15.25
No. M-742—42-in. Brooder complete, 250 chick-----	19.00
No. M-752—52-in. Brooder complete, 385 chick-----	23.25

Automatic Heat Control. No Attention Required.

### \*Oakes' Outfit for Home-Made Electric Brooder

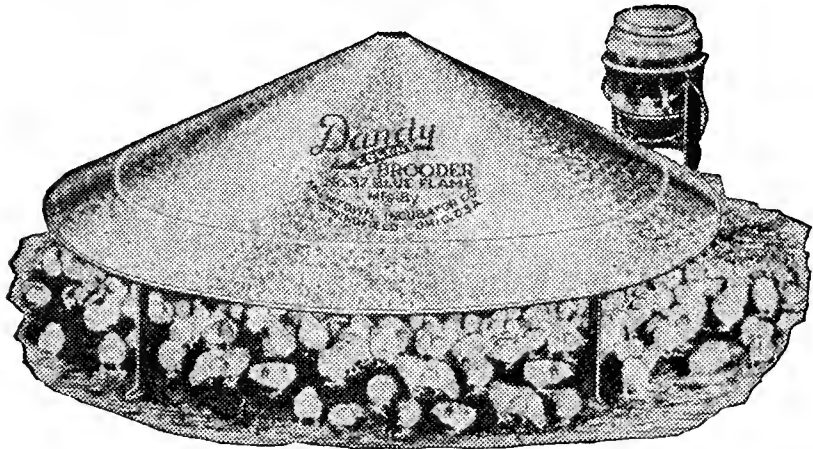
Now you can make your own Electric Brooder at very small cost. Simply use the Oakes' outfit illustrated below in connection with a wooden tub, half barrel or wooden box and you'll have a thoroughly dependable electric brooder at a very economical cost. Outfit consists of heater complete with legs and 8 feet of drop cord with detachable plug. We do not furnish tub shown in illustrated. Works on 110-volt A.C. or D.C.  
No. L-93-----\$3.25

### \*Dandy Blue-Flame Oil Burning Brooder

Here is a "Blue-Flame" Oil-Burning Brooder that's in a class of its own. It has important features that cannot be found on any oil-burning brooder that is as reasonable a price as we are offering on Dandy Blue-Flame today. If you have a warmly constructed or heated brooder house, the "Dandy" Blue-Flame Brooder will give you chick-raising results that cannot be surpassed by any brooder of its type regardless of price.

#### A POWERFUL AND EFFICIENT BURNER

First, it has a powerful burner, a burner that provides a tremendous amount of heat. The wick is large and can be depended upon to burn evenly and to give a hot, blue-flame at all times.



And the regulation of the burner is simplicity itself. Merely turn the wick up or down—that's all there is to it. Just as easy and simply as a kitchen oil stove. And the flame doesn't flare up. It won't go out.

#### NO COMPLICATED OIL "LEVELLING"

There's no oil leveling mechanism to contend with. No complicated leveling to do. You'll appreciate that if you have ever had experience with ordinary oil-burning brooders.

Nor is that all. There are no valves. No levers to fuss with and adjust. No priming. Simply set the "Dandy" down on any floor, put oil in the tank, and light the wick, and the "Dandy" is ready to serve you.

#### SCIENTIFICALLY DESIGNED HOVER

It has a hover made of galvanized material. And it is the correct size and shape to deflect the heat downward

to the brooding area where it is needed. None of the heat is wasted. Chicks stay warm and comfortable. There's no crowding, no chilling, no smothering. They thrive and grow.

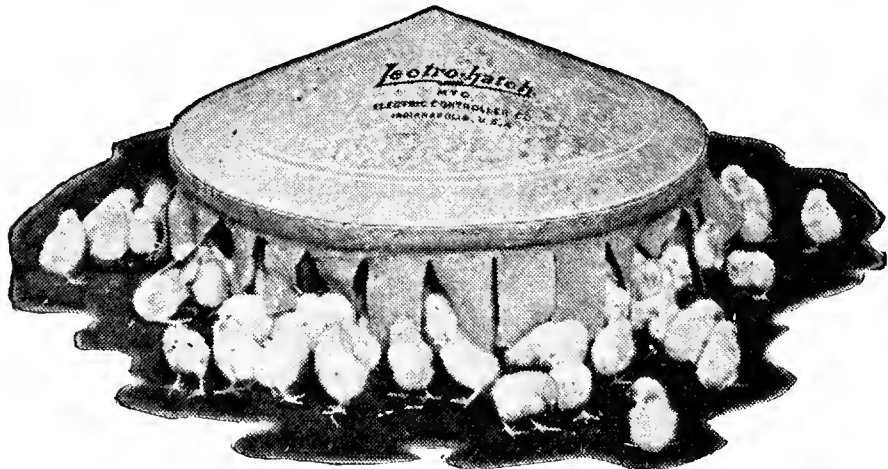
You'll have to see the "Dandy" Blue-Flame Oil Burning Brooder to appreciate what it is, how it is made, and what it will do. Let us tell you more about it.

No. 38—Capacity, 200 chicks; canopy, 34 inches; weight, 50 pounds-----Each \$12.75  
No. 37—Capacity, 500 chicks; canopy, 52 inches; weight, 60 pounds-----Each 14.75

### \*Buckeye Electric Brooder

Chick capacity-----	No. 91	No. 92
Diameter of canopy-----	100	200
Price-----	36 in.	46 in.
	\$16.26	\$20.39

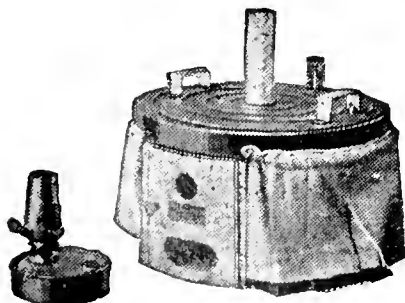
### Made in Two Popular Sizes 150-Chick and 500-Chick



IT'S ALL BROODER—NO LAMP, NO STOVE!

### \*Oake's "Economy" Hover

#### LAMP-HEATED



Simple in construction, made of steel throughout, and durable. Can be lifted by its two handles without disturbing the lamp and used anywhere with perfect safety as it stands on a level floor; no platform or other preparation necessary. Only a small flame is required, as the lamp is inside and no heat is lost. The curtain is double and made of outing flannel.

No. K-102—18-in. drum, 50 to 75 chicks-----\$5.40  
No. K-103—22-in. drum, 100 to 125 chicks-----8.10

### \*Lectro-hatch Electric Brooders

The Lectro-hatch Brooder has the same principle of reliable heat and automatic temperature control as the Lectro-hatch Incubator. Night or day the temperature in your brooder never varies. There are no ups or downs—no frozen or roasted chicks. Chicks breathe free, pure air all the time. Pure air, unchanging heat and no crowding will prevent a big part of your usual chick losses. Lectro-hatch Brooders are strongly built of heavy galvanized metal, with heavy felt curtain—sturdy, attractive, efficient and durable.

150-chick size----- \$18.00  
(28 inch diameter)  
500-chick size----- 23.50  
(40 inch diameter)

### Incubator Lamp Wicks

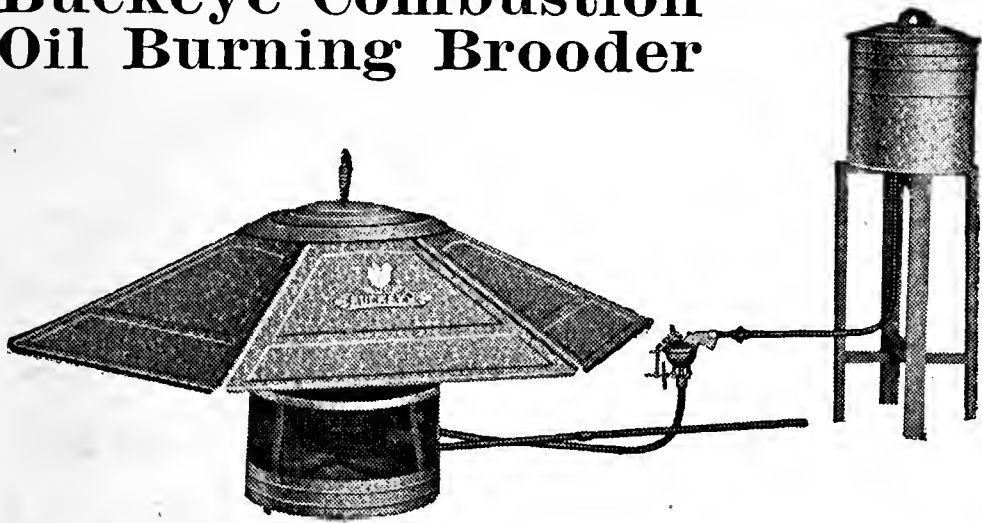
Made of felt. The best wick to use in your incubator lamp. State width of wick when ordering. Each, 5c; doz., 50c; weight 2 oz.

### Brooder Wicks

Buckeye Kerogas No. 20-----\$ .25  
Buckeye Kerogas No. 45----- .45  
Buckeye Loraine----- .30



## Buckeye Combustion Oil Burning Brooder



One of the reasons for its outstanding efficiency is its marvelous burner. It produces a tremendous amount of heat with a minimum flame. Furthermore, the flame won't go out as long as a drop of oil reaches the burner. Imagine what this means to the safety of your baby chicks.

The drum is made of heavy gauge steel—unusually large—with an extra amount of radiating surface, utilizing the maximum amount of heat developed by the flame.

A new carburetor-type regulator with a floating valve positively equalizes the flow of oil, regardless of amount in tank. Its double wafer thermostat automatically assures correct brooding temperature regardless of sudden and extreme change in weather.

No. 847—300-chick size, 47 in. canopy,  
5-gal. tank, weight 50 lbs.-----\$16.50  
No. 857—700-chick size, 57 in. canopy,  
7-gal. tank, weight 63 lbs.----- 16.95

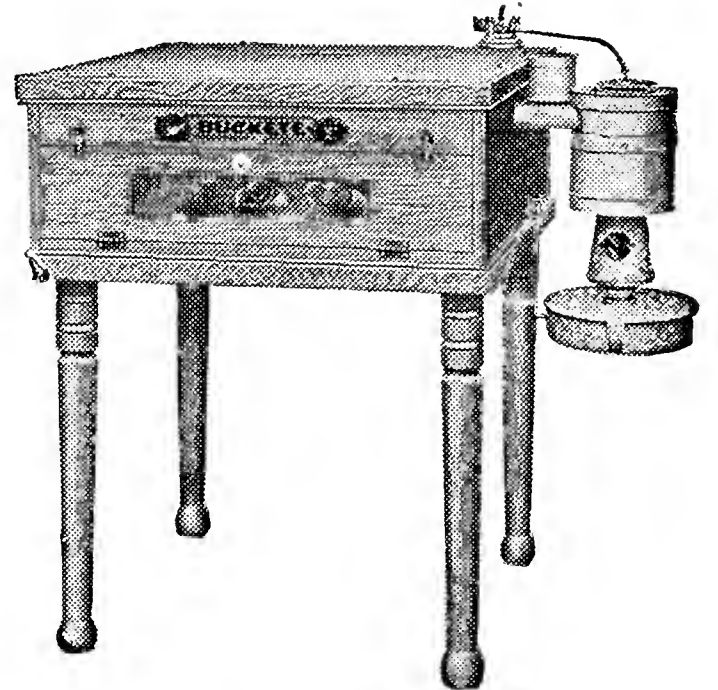
## Buckeye Incubators

Buckeye Incubators are the result of over thirty-five years of study and experiment. There are no other incubators like them. Buckeye "Standard" Incubators are made with double-thick case. Heat insulating is practically perfect. The hot water circulating tank is pure copper—it will never rust or corrode. The automatic regulator assures uniform temperature at all times without any attention whatever. The lamp is supplied with either an oil or gas burner—each one efficient, economical in operation, dependable and fire-proof. Buckeye "Style E" Incubators are a little more simply constructed and a little less expensive in price—but they contain all the essential features of the Buckeye design.

**Notes This:** Both Buckeye "Standard" and Buckeye "Style E" Incubators carry the same unlimited guarantee—to hatch every hatchable egg every time and under all conditions. You can select either type of Buckeye Incubator and be sure of the best possible hatching results.

### CAPACITIES AND WEIGHTS

"Standard"			
No. 2—175 eggs,	135 lbs.,	\$35.00 value-----	29.75
"Style E"			
No. 14— 65 eggs,	55 lbs.,	\$16.50 value-----	14.12
No. 16—110 eggs,	85 lbs.,	\$22.50 value-----	19.13
No. 17—210 eggs,	125 lbs.,	\$30.00 value-----	25.50



Buckeye "Standard" No. 3

## POULTRY LITTER

In General Use by Progressive Poultrymen



This litter does away with the lack of sanitation that is usually evident in poultry houses. It is a labor-saver; prevents dampness; is absolutely sanitary, prevents the spread of disease, absorbs offensive odors; keeps the birds clean; makes an ideal dust bath; keeps the house warmer in winter and cooler in summer. **It is economical.** Though the original cost may be slightly higher than other litters, it outlasts others two or three times and saves the labor of handling. It prevents fire because it will not blaze. It takes an intense heat even to make this litter smoulder. After being used in the poultry house, it makes a most valuable fertilizer. Many poultrymen sell their O. K. Poultry Litter manure mixture to gardeners, florists and nurserymen at a high price. It does not injure the birds if eaten. One bale will cover 240 square feet with 1-inch of litter. Bales weight approximately 140 pounds. \$3.00 per bale, f.o.b., San Antonio, Texas.

## \*Lactic

A Pure Edible Lactic Acid

**LACTIC** gives the handler of live poultry all the active appetizing, digestive and medicinal principles of Buttermilk in a concentrated form, free from all objectionable features of buttermilk. One 6-ounce bottle of **LACTIC** contains the equivalent of the lactic acid of 30 gallons of buttermilk. 6-oz. bottle, \$1.00.

## Rabbit Remedies and Supplies

\***McCLELLAN'S CANKER-RAB** (Formerly McClellan's Rabbit Ear Canker Remedy—For Ear Canker in Rabbits and Furred Animals. 2-oz. bottle, 50c.

\***McCLELLAN'S RABBIT BOWEL CONDITIONER** (Formerly Rabbit Diarrhoea Remedy)—2-oz. bottle, 50c.

\***McCLELLAN'S LARGE ROUND WORM EMULSION AND CONDITIONER**—2-oz. bottle, 50c.

**McCLELLAN'S RABBIT COLD PREPARATION**—See Bronki-ol Inhalant.

**McCLELLAN'S RABBIT SNUFFLE PREPARATION**—See Bronki-ol Inhalant.

**RABBOTENE MEDICATED SALT SPOOLS** (Prepared especially for Rabbits)—Compounded from pure mineral salt with iron, sulphur, potassium iodide and selected medicinal roots and herbs of great value to digestion and assimilation in rabbits. 15c each; 2 for 25c; roll of 10 spools, \$1.00.

**SULPHURIZED SALT SPOOLS**—5c each 6 for 25c.

**PLAIN SALT SPOOLS**—5c each; 6 for 25c.

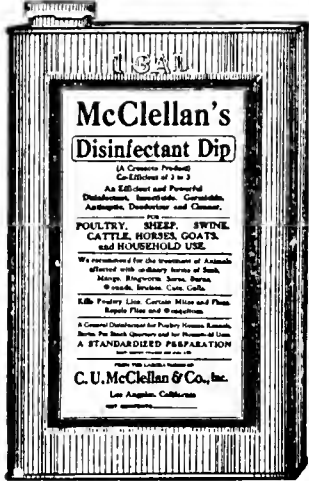
## Stoneware For Rabbits and Poultry

	Each
1 gallon Water Jug-----	\$0.25
2 gallon 2-piece Fount-----	.80
1 gallon 2-piece Buttermilk Fount-----	.50
2 gallon 2-piece Buttermilk Fount-----	.75
1 gallon 1-piece Non-Splash Buttermilk Fount-----	.75
Round Open Crock for Rabbits-----	.15
Round Crock with Lip for Rabbits-----	.20

## Vermin Control

### \*McClellan's Disinfectant Dip (2 to 3 Co-efficient)

McClellan's Disinfectant Dip is an efficient disinfectant, germicide, insecticide and antiseptic, recommended as a disinfectant for poultry houses, kennels, barns, pet stock quarters and for household uses. Can be diluted with water or oil.



8-ounce bottle	-----	\$ .30
Pint bottle	-----	.45
Quart can	-----	.60
1/2-gal. can	-----	.90
1-gal. can	-----	1.60
5-gal. can	-----	6.50

### McClellan's Red Mite and Lice Killer

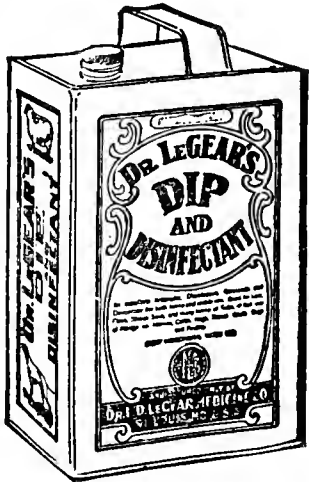
McClellan's Liquid Lice and Mite Killer is to be used on the fowls or in the poultry houses to aid in killing certain lice and mites. Kills by contact.

Quart can	-----	\$0.60
1/2-gal. can	-----	.90
1-gal. can	-----	1.60
5-gal. can	-----	6.50

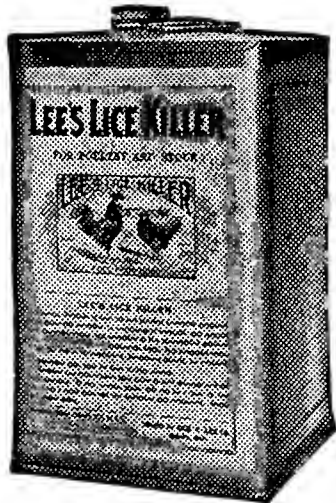
## Dr. LeGear's Dip and Disinfectant

An excellent antiseptic, disinfectant, germicide and deodorant for both home and stable use. Good for lice, fleas, sheep scab, and many forms of ticks, itch and mange on horses, cattle, hogs, sheep, goats, dogs and poultry. Put up in 8-oz. bottle, 30c; quart, 65c; half gallon, \$1.05; one gallon, \$1.75.

\*Special—Bring in your empty cans and let us fill them with LeGear's Dip and Disinfectant at \$1.25 per gallon.



### \*Lee's Lice Killer



It kills by vapor and contact. It gives double service. Painted on the roost it kills insects with which it comes in contact, and the vapor arising kills lice on the bodies of the chickens as they roost over night, also the insect causing scaly leg. Not available. Price—Quart can, 60c; 1/2 gallon, 90c; gallon can, \$1.50.

\*CREOSOTE DIP or 15% Crude Carbolic Acid—An excellent liquid spray or paint to put on your poultry house to keep them free from all vermin. 1/4 gallon, 35c; 1/2 gallon, 65c; 1 gallon, \$1.00; \$1.25 per gallon.

\*BULK DIP AND DISINFECTANT (2 to 3 Co-efficient)—Used as a disinfectant, germicide, insecticide and antiseptic for poultry houses, kennels, barns and household uses. Can be diluted with water or oil. 1/4 gal., 45c; 1/2 gal., 75c; 1 gal., \$1.35; 5 gal., \$6.25.

## \*McClellan's Compound Sodium Floride Lice Powder (FOR POULTRY)

McClellan's Compound Sodium Fluoride Lice Powder is a very high grade preparation made for dusting fowls. Unequalled insofar as efficiency in killing and eradicating lice on poultry is concerned.

15 -oz. pkg.	-----	30c
2 1/2-lb. pkg.	-----	70c

### \*Dr. LeGear's Lice Killer Powder

Price ----- 30 Cents



## \*Carbolineum

is a pure, unadulterated high boiling anthracene oil—a carbolineum of the highest grade—meeting Uncle Sam's requirements in every respect and it is

### SURE DEATH TO MITES AND BLUE BUGS

Can be applied with a brush, like paint, or sprayed on as preferred. It should not be applied to the chickens. One gallon will go over an ordinary chicken-house, size 8x12. 1/4 gal., 50c; 1/2 gal., 90c; 1 gal., \$1.50; 5 gal., \$7.25.

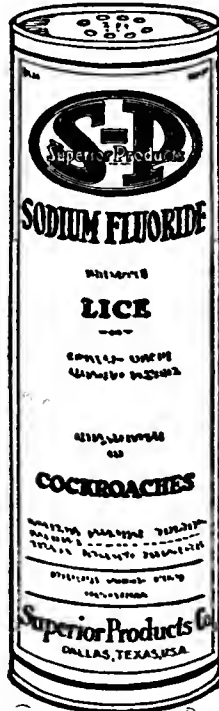
## Super-ol

Kills chicken mites, fowl ticks or "Blue Bugs". A dependable wood preservative. Protects against rot and premature decay. Protects wood from destruction by white ants (Termites). On practically every kind of farm building, it may be used as a paint. It is less expensive than paint, easy to apply and prevents decay. 1 gallon, \$1.75.



## Sodium Fluoride

A preparation highly recommended by the U. S. Government for the control of poultry lice. May be used as a dip or dust. Lb. 30c.



## \*Talcumized Sodium Fluoride

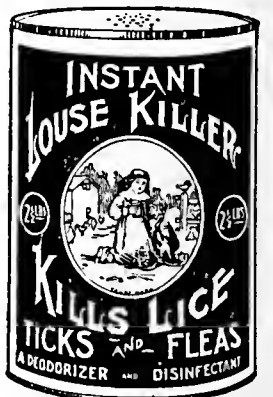
It kills both old and young lice, including unhatched lice present at the time of treatment. Talcumized Sodium Fluoride (called "T. S. F.") is made especially for poultry use. It is less irritating than straight Sodium Fluoride, penetrates the plumage more thoroughly, and comes packed in a moisture-proof, shaker-top package bearing the U. S. Government's directions for using. Large size, 70c; special size (5 times the 70c size), \$2.65. The above prices include packing and postage.

## \*Dr. Hess Louse Killer

Kills lice on poultry, horses and cattle; sheep ticks; bugs on cucumber, squash, and melon vines; slugs on rose bushes; ants. Non-poisonous; can be used in safety on edible plants. Sold in sifting-top cans.

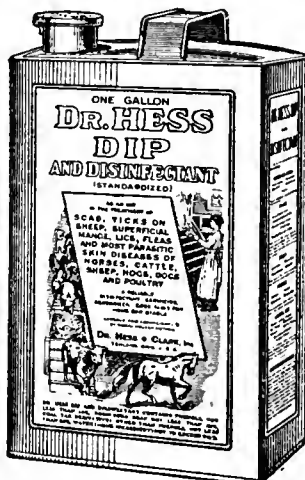
1 -lb. can	-----	\$0.25
2 1/2-lb. can	-----	.50

Conkey's Head Lice Ointment	-----	10c and 25c
Conkey's Lice Fix—pkg.	-----	25c and 50c
Conkey's Flea Salve—pkg.	-----	25c



## \*Dr. Hess Dip and Disinfectant

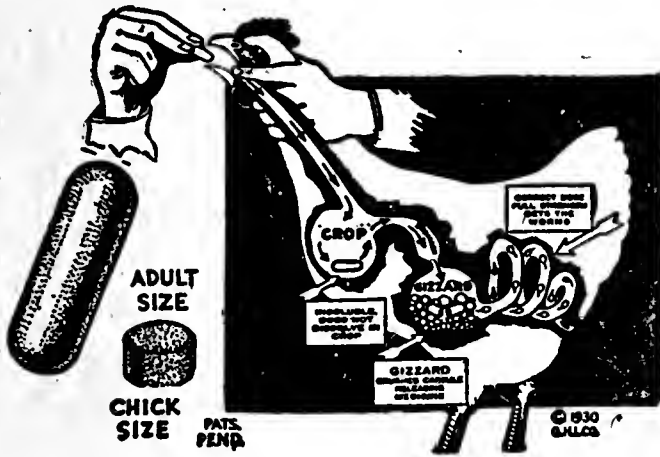
Kills hog lice, sheep ticks, and other animal parasites. For general disinfecting about stables, dairy barns, poultry houses, and the household. It is standardized, always uniform in strength. Makes a milky-white emulsion. Pints ----- \$0.35  
Quarts ----- .60  
1/2 gallon ----- .90  
1 gallon ----- 1.50  
5 gallons ----- 6.50





## \*Lee's Gizzard Capsules

An Insoluble Capsule carrying a triple combination worm medicine for Tapeworms, Round Worms, and Pin Worms. Being insoluble, it passes through the mouth, throat, crop and stomach of the fowl to the gizzard where it is ground up like a grain of corn, pouring the full strength, undiluted medicine directly into the intestines upon the worms.



CHICK SIZE		
50 Capsules,	pkg.	-----\$0.40
100 Capsules,	pkg.	----- .75
250 Capsules,	pkg.	----- 1.75
500 Capsules,	pkg.	----- 3.25
1000 Capsules,	pkg.	----- 6.00

PULLET SIZE		
50 Capsules,	pkg.	-----\$0.50
100 Capsules,	pkg.	----- 1.00
250 Capsules,	pkg.	----- 2.50
500 Capsules,	pkg.	----- 4.50
1000 Capsules,	pkg.	----- 8.50

ADULT SIZE		
50 Capsules,	pkg.	-----\$0.75
100 Capsules,	pkg.	----- 1.35
250 Capsules,	pkg.	----- 3.00
500 Capsules,	pkg.	----- 5.50
1000 Capsules,	pkg.	-----10.00

## "Gold Leaf" Tobacco Powder



### CONTROLS

#### POULTRY ROUND WORM

Mix two pounds of "Gold Leaf" Tobacco Powder with 100 pounds of dry mash. With the large 100-lb. bag, 800 birds can be treated for about 12 cents a day, or at the rate of about 70 birds for 1 cent a day, during treatment period. Prices: 2 lbs. 30c 10 lbs. \$1.00; 100 lbs. \$6.25.

## Kill Roundworm While Flocks Feed



Don't waste feed on Roundworm—kill them. Just feed "Black Leaf"

Worm Powder once in mash. Single dose does the work. Easy, economical and effective. Saves time, trouble and money. Increases production. Harmless to birds. No odor, taste or bother. We highly recommend "Black Leaf" Worm Powder. Sold here. Ask for circular.

4 -oz. pkg., 100-hen size \$0.75  
1½-lb. pkg., 600-hen size 2.90

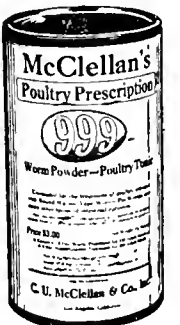
**FEED ONCE IN MASH**

## McClellan's Poultry Prescription 999

### POULTRY TONIC AND WORM POWDER

McCLELLAN'S PRESCRIPTION 999, Worm Powder and Poultry Conditioner, is an efficient and very successful flock treatment for internal parasites such as tapeworms and large round worms. It is a scientifically and properly balanced compound of vital minerals together with several very expensive and proven worm expellents. It is harmless in effect upon the bird. Will not retard egg production, will not cause the birds to go into moult but on the contrary increases the egg output and acts as a builder of the body, blood and vitality. It can easily be mixed with the feed or given in individual treatments as preferred.

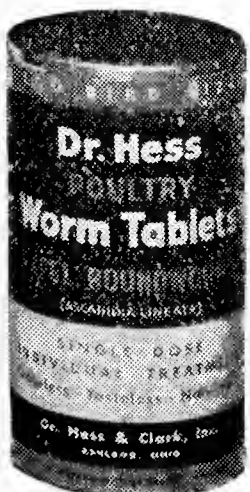
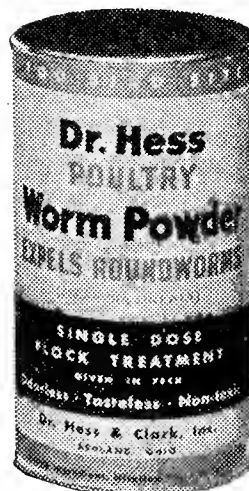
4-oz. package	-----	\$ .50
12-oz. package	-----	1.25
1½-lb. package	-----	2.25
3-lb. package	-----	4.25
5-lb. package	-----	6.25



## Dr. Hess Poultry Worm Powder

A proven single-dose flock treatment for round worms. Given in mash the expulsion of worms starts in a few hours and is usually completed in from 24 to 36 hours. No fasting or laxatives required. Does not check egg production.

50 Adult Bird size	-----	\$0.50
100 Adult Bird size	-----	.90
250 Adult Bird size	-----	1.90
500 Adult Bird size	-----	3.00
1000 Adult Bird size	-----	5.40



## Dr. Hess Poultry Worm Tablets

The active ingredients of DR. HESS POULTRY WORM POWDER in tablet form for individual treatment.

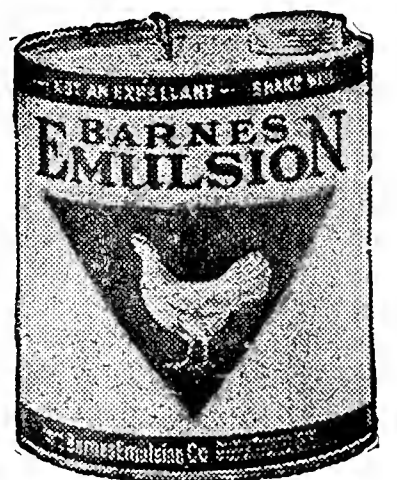
40 Tablets,	pkg.	-----	\$0.50
100 Tablets,	pkg.	-----	1.00
250 Tablets,	pkg.	-----	2.00
500 Tablets,	pkg.	-----	3.50
1000 Tablets,	pkg.	-----	6.50

## \*Barnes Emulsion

Is a positive control for poultry worms. If fed according to directions, based on the condition of your flock, you will have no trouble getting this situation well in hand. It will be well worth your while to make a careful test on your birds of this product. No honest test of this emulsion has failed to get results. Write for booklet, "Common Sense vs. Worms" for full information. It will be sent you free of charge.

Barnes Emulsion not only controls worms but builds the vitality of your poultry. Based on our nine years' experience with this product we unhesitatingly recommend it.

Quarts	-----	\$ 1.00
Gallons	-----	3.00
5-Gallon Kegs	-----	12.50



## Dr. LeGear's Nicotine-Kamala Pills

**Adult Size**—An effective preparation against large round worms and also tape worms—a very easy simple individual treatment—no fasting necessary—as the pill is to be given on full crop. 50 pills, \$1.00; 100 pills, \$1.75.

**Chick Size**—Especially for chicks. 45 pills, 50c; 100 pills, \$1.00.

Germozone



\*GERMOZONE—Is a most effective remedy for diseases affecting the skin and semi-exterior mucous membrane of man, fowl or beast.

For Poultry—Roup, colds, canker, chicken-pox, sore head, swelled head, cholera, bowel trouble, etc.

For Stock—Cuts, sores, wounds, sore eyes or mouth, saddle or harness galls swelling skin diseases, etc.

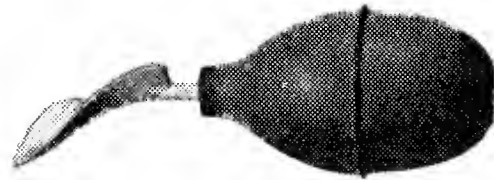
4 oz. at	-----	\$0.40
12 oz. at	-----	.75
Quart size	-----	\$1.50
1/2 Gallon	-----	2.50
Gallon	-----	4.50

\*WALKO—Especially valuable for white diarrhoea among incubator chicks. Tends to increase strength and vitality and should be given in drinking water as a preventive from the time chicks are out of the shell. 50c and \$1.00 pkgs.

*Dr. LeGear's Chick Tablets	-----	\$ .50
Dr. LeGear's Gall Remedy	-----	.30

\*Lee's Nasal Syringe

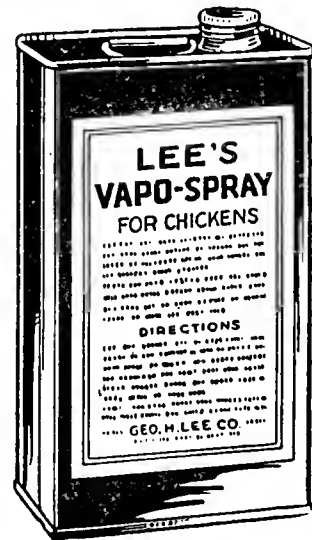
In swelled head, and other very serious diseases of this type, the upper air passages of the head become filled with mucus. Medicine, to be effective, must come in direct contact with the affected membrane lining.



With this syringe the medicine is forced into the head right where it will get direct action against the disease and, at the same time, this forcing of the medicine into the nasal passages also forces the mucus out of the head. The mucus will come through the nose and eye sockets. Price 75c.

Lee's Poultry Syringe

Many times in treating sick chickens it becomes necessary to give individual doses of medicine, and if the birds refuse to eat, this can only be done by the use of Lee's Poultry Syringe. Here are a few of its many uses: individual treatment of sick chickens; individual doses of epsom salts; washing out crop with Germozone in limberneck; doses of castor oil, sweet oil, or mineral oil; feeding milk or thin gruel to sick chickens. These and many other uses for this wonderful little syringe will be found wherever poultry is raised. 1 ounce capacity. 25 cents (30 cents postpaid).



\*Lee Vapo-Spray

VAPO-SPRAY—A combination of healing oils, is sprayed in the air of the hen house at night. Its vapor is breathed into the nasal passages, throat, windpipe and

lungs and acts directly on the inflamed parts. Also recommended for hogs.

1-Qt. can	-----	\$ .75
1/2-Gal. can	-----	1.25
1-Gal. can	-----	2.00

\*McClellan's

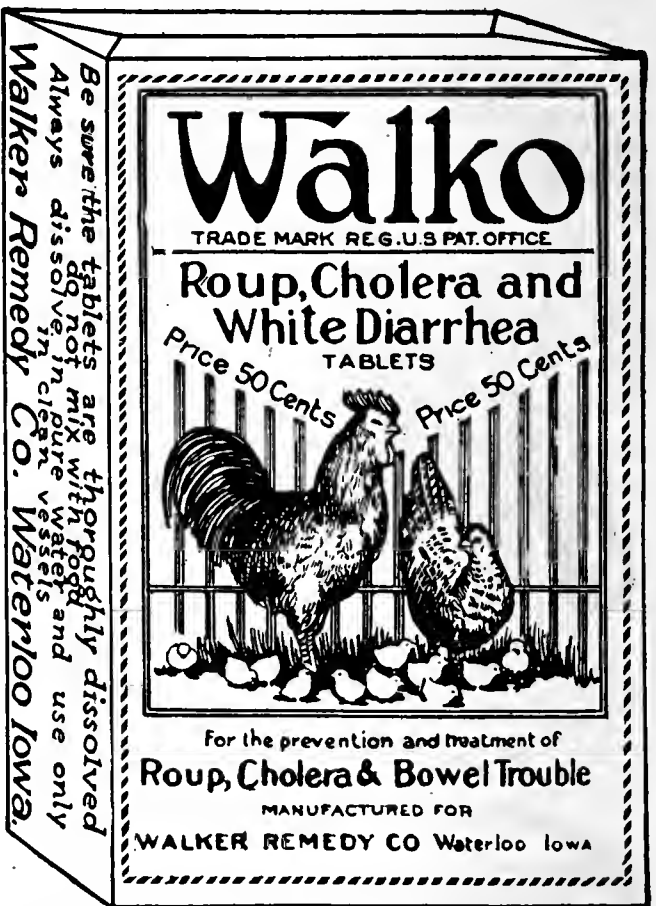
Bronki-ol Inhalant

(FOR POULTRY AND RABBITS)



McClellan's Bronki-Ol Inhalant, when used as a nasal spray, is a cooling, soothing, beneficial therapeutic for throat and nostrils. It is being used continuously by many of the leading chicken, turkey and rabbit raisers in the United States and Canada, and has become established as one of the most popular, efficient and satisfactory preparations of the well known "McClellan" line.

8-oz. bottle	-----	\$ .50
Pint cans	-----	.75
Quart cans	-----	1.25
1/2-gallon cans	-----	2.00
1-gallon cans	-----	3.25
5-gallon cans	-----	15.00

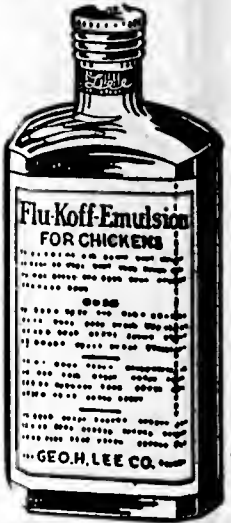


Lee's Emulsion

LEE'S EMULSION—A cough medicine for poultry and hogs and acts much the same as a cough syrup in human beings. It may be administered in water, thick slop, wet mash, or soaked grain (soaked oats preferred).

INGREDIENTS: Oil Eucalyptus, Oil Pine Tar, Oil Anise, Beechwood Creosote, Chloroform, Camphor, Turpentine, Linseed Oil, Sodium Chloride, Water, Emulsive.

13-oz. bottle	-----	\$1.00
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Potassium Permanganate

An excellent germicide used extensively in drinking water for poultry to keep them in healthy condition. Has a very soothing effect on the membranes and linings of chicken's throat and intestines and is, therefore, very extensively used in curing the diseases of these tracts. Price: Lb. 65c. Not mailable.



COCCIDIOSIS REMEDY

*Stops Losses Now!*

Dead Chicks Lose You Money

S-P Coccidiosis Remedy Will Keep Them Alive

Given in the drinking water. No starving of birds—no inconvenience. Easy to apply, is an excellent preventive. One box treats 100 to 125 chicks. Simply dissolve in the water.

Price per box, postpaid	-----	\$1.00*
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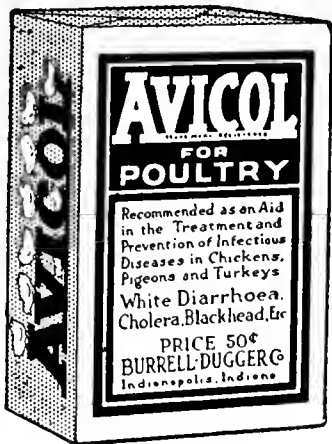


## \*Avicol

For White Diarrhoea in Chicks, and Blackhead in Turkeys

Avicol does the work in 48 hours. Almost from the very moment you drop the first Avicol tablet in the drinking water, the sick chicks start to get well. Usually, in a short time, the very ones that seemed too weak and sick to live another day, are running around as lively as crickets, full of pep, hungry, hearty, scratching and pushing for a place at the feeding trough.

Price, 50c; special large size (almost 3 times 50c size), \$1.00.



## \*Don Sung

Chinese for Egg-Laying

It is a concentrated medicine—no needless bulk or filler—ready to add to your mash feed. It has a direct tonic action on the egg-laying organs and doesn't force or hurt the hens in any way. It produces more eggs by first putting the hen in good health, and then helping to maintain their health.

Small size, 50c; large size (3 times the 50c size) \$1.00.



## FOR COLDS in Poultry

### \*Croup-Over

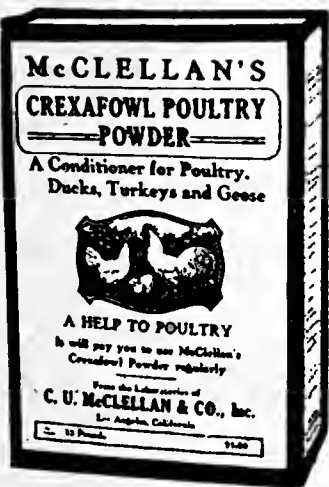
Use Croup-Over at the very first symptoms of Roup or colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention.

Price: 50c; large size (3 times 50c size), \$1.00.



**\*McCLELLAN'S LIQUID CREXAFOWL POULTRY TONIC**—McClellan's Liquid Crexafowl is a scientific mineral conditioner for poultry, ducks, turkeys, geese and young fowl, especially indicated for baby chicks as well as an excellent fattener for use by feeding stations. A splendid stimulating conditioner for moulting hens. Makes hens lay and pay.

8-oz. bottle	-----	\$ .50
16-oz. bottle	-----	.75
Quart bottle	-----	1.00
1/2-Gallon bottle	-----	1.75
1-gallon bottle	-----	3.00
5-gallon bottle	-----	12.50



## \*McClellan's Crexafowl Poultry Powder

Compounded for the same purpose as Crexafowl Liquid, but put up in powder form.

1 1/2 Lb.	-----	\$ .30
5 Lb.	-----	.85
12 Lb.	-----	1.85
30 Lb.—Galvanized pail	-----	4.25
100 Lb.—Barrel	-----	12.00

**Pratts**

## Poultry Regulator

24-oz. pkg.-----\$ .25

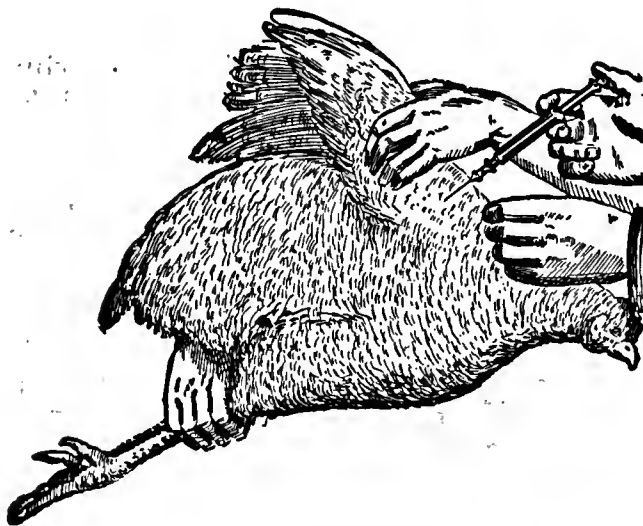
## STOP CANNIBALISM

In Baby Chicks With  
McCLELLAN'S TOE PICK

McClellan's Toe Pick is manufactured for controlling and overcoming the vicious habit of toe, wing and vent picking of chicks. It is also soothing and healing. 7-oz. can, 45c; 15-oz. can, 80c.

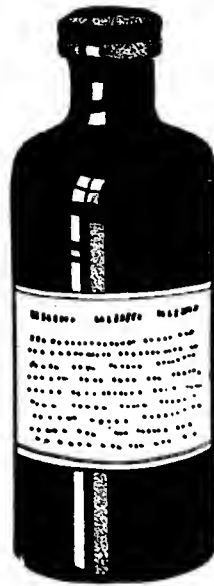
## Avian Bacterin

VACCINATION PAYS



Stops poultry losses. Increases profits. Best preventive and treatment of mixed infections in poultry, including diphtheria, roup, colds, canker, cholera and their complications.

Vacinate with Avian Mixed Infection Bacterin.



60 doses	-----	\$1.50
120 doses	-----	2.25
250 doses	-----	3.50
500 doses	-----	5.00
Quitman Syringe	-----	1.50
10-dose Glass Syringe	-----	1.25

## \*McClellan's Pineasan

(A Soluble Pine Oil Deodorant)

McClellan's Pineasan is a very high deodorant and cleaner. To be used in hospitals, jails, schools, hotels, kennels, stables, ranches, etc. To be used where a creosote disinfectant cannot be used. McClellan's Pineasan can be used in the scrub water as a cleaner.

Pint cans	-----	\$ .75
Quart cans	-----	1.00
1/2-gallon cans	-----	1.75
1-gallon cans	-----	3.00
5-gallon cans	-----	12.50

## Dr. Hess Poultry Pan-a-min

**DR. HESS POULTRY PAN-A-MIN**—Helps to make poultry healthier and to make hens lay. Not a stimulant, but a tonic that tones up the dormant organs, brings back the scratch and cackle, and compels each hen to put her share of eggs in the market basket. 100-lb. drum, \$10.50; 25-lb. pail, \$3.00; 15-lb. pkg., \$2.00; 7-lb. pkg., \$1.00; 3-lb. pkg., 50c; 1½-lb. pkg., 25c.

## Dr. Hess Stock Tonic

**IMPROVED—With Minerals Added—A Conditioner and Worm Expeller—Promotes health—**makes hogs, cows and sheep more profitable—keeps horses and mules in good condition. Rids hogs of worms, makes the runts thrive and the whole herd gain faster.

Contains tonics to whet the appetite of cows, laxatives to keep the bowels in order, diuretics for the kidneys, and the needed minerals usually lacking in ordinary rations.

100-lb. drum, \$10.50; 25-lb. pail, \$3.00; 15-lb. pkg., \$2.00; 5-lb. pkg., 75c; 3-lb. pkg. 50c.

## Dr. Hess Hog Special

**DR. HESS HOG SPECIAL**—A Splendid Conditioner and Worm Expeller for Hogs—Rids hogs of worms. Makes the runts thrive and the whole herd gain faster. Contains tonics to whet the appetite, laxatives to keep the bowels in order, diuretics for the kidneys, and the needed minerals usually lacking in ordinary rations.

100-lb. drum, \$10.50; 25-lb. pkg. \$3.00; 15-lb. pkg., \$2.00; 7-lb. pkg. \$1.00; 3-lb. pkg., 50c.



## \*LeGear's Poultry Prescription

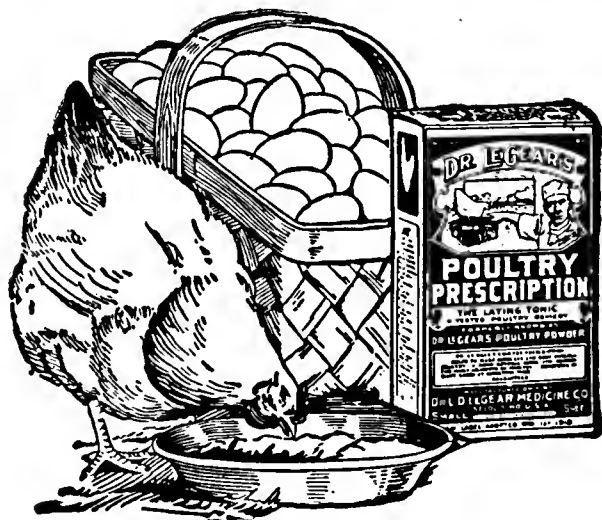
Helps to make hens lay to keep poultry health. A good general tonic and remedy for many ailments of poultry. It is especially beneficial during the moult, in the breeding season and during the winter time. 25c size; 50c size; \$1.00 size; 25-lb. drum \$3.00; 100-lb. bag \$10.50.

## Dr. LeGear's Stock Powder

**DR. LeGEAR'S STOCK POWDER**—25c size; 50c size; \$1 size; 25-lb. pail, \$3 size, \$3 size; 100-lb. bag, \$10.50 size.

## Cod Liver Oil

To be used in poultry mashes. Experience has proven that Cod Liver Oil is very beneficial to poultry when mixed in fresh with mashes, but is of no value where it is mixed in and exposed to the air for a considerable length of time. ¼ gal. 60c; ½ gal \$1.10; 1 gal. \$2; 5 gal. \$8.50.



## Dr. Hess Chick Tablets

For common diarrhoea, bacillary white diarrhoea, coccidiosis, or any form of bowel trouble affecting poultry. Used as a preventive and as a treatment. Given in the drinking water. 45 tablets, 25c; 100 tablets, 50c.

## Dr. Hess Poultry Tablets

Of high value in treating roup; slightly astringent, non-irritating and healing. Use as a local antiseptic and to medicate drinking water. Thus used they aid in preventing the disease. Once dissolved they remain in solution. The water needs no further stirring. 45 tablets, 25c; 100 tablets, 50c.

## Dr. LeGears' Chick Tablets

For common diarrhoea, bacillary white diarrhoea, coccidiosis, or any form of bowel trouble affecting poultry. Used as a preventive and as a treatment. Given in the drinking water. 100 tablets, 50c.

## Dr. Salsbury Poultry Remedies

**Dr. Salsburay Camp-Pho-Sal**—For sneezing, discharge from nostrils, labored breathing or gasping for breath. Small bottle (makes 5 pints of spray) \$1.00.

**Phenosal Tablets**—A valuable preparation to use in the drinking water, milk, moist mash or as an individual treatment for the prevention of poultry diseases. Also excellent for calves and young pigs. 50 tablets 50c; 125 tablets \$1.00; 300 tablets \$2.00; 500 tablets \$3.00; 1000 tablets \$5.50.

**Rakos**—A combination of strong acid medicine with astringents and antiseptics in concentrated form for the control of coccidiosis. Pint bottle (for 100-150 birds) \$1.25.

**Dr. Salsbury Avi-Tabs**—Worm flock treatment and tonic combined in tablet form. Contains pure Kamala and Nicotine well known for their effects on worms and essential tonics for building up the system. Avi-Tabs are dissolved in water and mixed with the mash. 50 tablets 60c; 100 tablets \$1; 200 tablets \$1.75; 400 tablets \$3.; 100 tablets \$7.

## EGG-O-LATUM

### EGG PRESERVATIVES

Rub a fresh egg with Egg-o-latum. Set it away on end in a cool dry cellar and it will keep perfectly fresh for one year. Price 50c, postpaid.

## Nux Vomica

To be mixed with poultry feed to kill hawks and rats. Will not affect poultry. Lb. 40c.

## Rutland's Water Glass

One can is sufficient to preserve from 16 to 20 dozen eggs. Price per can 50c.

## Conkey's Poultry Remedies

Conkey's Poultry Conditioner.....	Pkg., 25c, 50c
Conkey's Poultry Laxative.....	Pkg. 25c
Conkey's Scaly Leg Remedy.....	Pkg. 25c
Conkey's Gape Remedy.....	Pkg. 25c
Conkey's Pills (Roup Pills).....	Pkg. 1.00
Conkey's Diatex (White Diarrhoea Remedy).....	Pkg. 50c
Conkey's Cholera Remedy.....	Pkg. 25c, 50c, \$1.00
Conkey's Balmo (Canker Special).....	Pkg. 50c
Conkey's Old Reliable Powder (Roup Remedy).....	Pkg. \$1.00, 2.25

**CONKEY'S NOX-I-CIDE**—Dip and Disinfectant. Pt., 50c; Qt., 80c; ½ gal., \$1.30.

**CONKEY'S POULTRY WORMER**.....Pkg. 25c, 50c



**\*RED SEAL INSECT POWDER**—Odorless and non-poisonous. A guaranteed exterminator of roaches, flies, water bugs and fleas.

4-oz. cans.....	\$0.50
10-oz. cans.....	1.00

**GROUND PYRETHRUM FLOWERS**—Dust directly on ants, also a splendid ingredient for killing flies, mosquitoes, roaches, etc. We recommend this preparation where a powder is desired. It is very effective and most economical to use. Lb. 60c; 10 lbs. \$5.50.

**BEE BRAND POWDER**—For mosquitoes, roaches, flies, etc. 2¼ oz., 25c; 6 oz., 50c.

**McCLELLAN'S ANT POWDER**—2-oz. can, 25c.





# Just Paint it on the Roosts!

—Before the chickens perch. Only a small paint brush and a can of "Black Leaf 40" are needed. While chickens roost, fumes are slowly released and penetrate the feathers; killing lice. Eliminates individual handling of birds. Ask your dealer or write us. Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky.

## "Black Leaf 40" Kills Poultry Lice

1-oz. bottle	-----	\$0.35
Covers 12 to 15 running feet of roost.		
5-oz bottle	-----	1.00
Covers 60 to 75 running feet of roost.		
1-lb. bottle	-----	2.25
Covers 180 to 240 running feet of roost.		
2-lb. tin	-----	3.25
Covers 385 to 480 running feet of roost.		
5-lb. tin	-----	5.85
Covers 900 to 1200 running feet of roost.		
10-lb. tin	-----	9.85
Covers 1,900 to 2,400 running feet of roost.		
(Cannot be mailed)		

### \*Nicotox

#### THE NEW MODERN POULTRY AND LIVE STOCK DELOUSER

You do not handle a bird. There is no powder, liquid, or grease to be rubbed in, dusted or sprayed on to every bird. Just a few strokes with a paint brush and you can easily and economically delouse your entire flock whether you have 20 or 2,000 birds. The low cost and efficiency of Bonide NICOTOX makes it true economy to "just paint the roosts" whenever the birds need it. The new modern Bonide NICOTOX method does away with the necessity of using messy powders, ointments, dips, etc., which require tedious labor and usually interfere with egg production.



Bonide NICOTOX is a new, improved Nicotine Sulphate formula, stronger and has lasting qualities superior to those of any other similar product on the market. It costs about half the price of similar preparations. NICOTOX takes all the trouble, labor and high cost out of delousing poultry, so now you cannot afford not to delouse your flocks.

#### Prices and Sizes

		Net Wt. per can
½ Pts.	\$0.75—Enough to delouse 200 hens	10 oz.
Pts.	1.25—Enough to delouse 500 hens	1½ lbs.
Qts.	2.00—Enough to delouse 1,000 hens	2½ lbs.

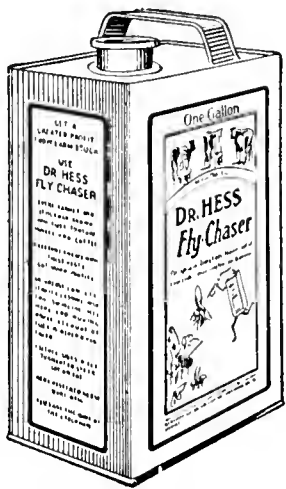


Rids poultry of all blood sucking lice, mites, fleas, blue bugs, cleans them of all intestinal worms and parasites. It is also a wonderful poultry tonic, blood purifier, health builder and egg producer. It contains lots of sulphur, compounded scientifically with other health building ingredients. Known remedies for preventing disease. "Prevention is cheaper than cure." Keep your flocks free of insects and intestinal worms and their system in good condition through the winter and you will get good hatchings and strong chicks in the spring. A supply to last you through the winter and spring will cost very little. Give it a six days' trial at our risk. Money back is not pleased. 50c and \$1.00 per bottle.\*

### \*Dr. Hess Fly Chaser

Has the odor of the pines. Pleasant to folks, but repelling to flies and mosquitoes. Prevents the summer milk slump. Besides being a most efficient fly repellent, it is a disinfectant, antiseptic and deodorant. Will not taint the milk; will not strain or gum the hair. It is a skin cleanser.

1 gallon	-----	\$1.50
5 gallons	-----	6.50



### \*Flyrol

#### A RELIABLE HOUSEHOLD INSECTICIDE

Destroys flies, moths, mosquitoes, bedbugs, beetles, silverfish. fleas, chicken lice, mites and their eggs. Flyrol, sprayed thoroughly within the house is a sanitary measure insuring against contagion. Flyrol is 100% active and non-poisonous. Will not stain the daintiest fabrics. No unpleasant odor. Use Flyrol freely during spring and summer months.



Pint cans	-----	\$ .33
Quart cans	-----	.65
Gallon cans	-----	2.10
5-Gallon cans	-----	8.50

### \*McClellan's Fly-Fate

#### For Household Purposes

McClellan's Fly-Fate is non-poisonous and harmless to everything except insects. Kills flies, cloth moths, mosquitoes, fleas, roaches, bed bugs, and ants. McClellan's Fly-Fate is highly perfumed with the following odors: Lilac, wintergreen and acassia. Recommended for homes, hotels, restaurants, markets, stores, etc. Will not stain.

Pint bottle	-----	\$ .50
Weight, 2 lbs.		
Quart bottle	-----	.75
Weight, 4 lbs.		



### Knox-Out

K-O is safe, clean and clear—contains no tar, refuse, or heavy, dark oils. It has one hundred per efficiency and is highly economical. The combination of strangling, repelling and other effects on the flies, enables K-O to give the cows solid comfort and help maintain flesh and volume of milk. It gives you contented cows and helps you save that 10% to 20% milk loss. It makes milking pleasant and comfortable for the herdsman.



Quart	-----	\$0.60
1 Gallon	-----	1.50

### \*McClellan's Sept-A-Soil

#### (An Iodized and Cresylated Disinfectant)

For spraying over soil, dirt, ground and all premises which have been used by infected or unhealthy poultry or stock.

1-Gallon cans	-----	\$2.75
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## Martin's Blue Poultry Tone



### FOR BLUE BUGS

MARTIN'S POULTRY TONE is a tonic to be fed to poultry that have been exposed to blood sucking insects. Poultry that have been exposed to blood sucking insects show a loss in vitality, and in some cases the vitality of the fowl is reduced to where they become weak and in some instances cannot walk. Martin's Poultry Tone is to be mixed in bran or dry mash as per directions on package. 1-lb. pkg. 50c.



## Martin's Screw Worm Killer

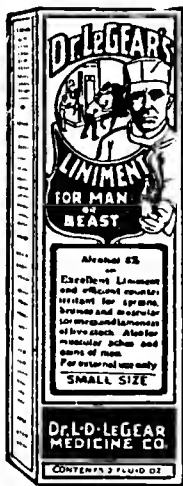
Kills the worms quickly without any bad effects on the wound and assists as a fly repellent. 2½-oz. can 25c size.

## Dr. LeGear's Screw Worm Killer

Is a three-in-one preparation. It not only kills Screw Worms, but keeps the flies away and promotes healing. It has a sprinkler stopper, which makes it very easy to apply, right into the wound. 2-oz. bottle 30c.

## Dr. LeGear's Liniment

This preparation is a white penetrating liniment and an efficient counter-irritant for sprains, bruises and muscular soreness and lameness of livestock. Also for muscular aches and pains of man. 2-oz. bottle 30c; 6-oz. bottle 60c.



## Dr. LeGear's Blister

Will be found to be an effective blistering ointment for Spavin, Splint or Curb. It will not kill the hair or blemish when used according to directions. We have hundreds of testimonials that it has given entire satisfaction.

Dr. LeGear's Blister is an ointment, and is easy to apply. 2-oz. bottle, 75c.

## LeGear's Flatulent Colic Medicine

Is recommended for all cases of flatulent colic in live stock. You will find in the majority of cases it will relieve your horse in 2 or 3 hours. 4-oz. bottle 75c.

## LeGear's Gall Salve

Recommended for sore backs, caused by collars and saddle galls, scratches, sore teats on cows, and minor sores on live stock. Keeps sore softened and you can continue working the horse while using Dr. LeGear's Gall Salve. 2-oz. can 30c.

## \*Dr. LeGear's Antiseptic Powder

PROMOTES HEALING

It is an excellent antiseptic preparation for treating cuts and sores, barbed wire cuts, saddle, harness and collar galls. Keeps off flies. For flesh wounds and abrasions, livestock breeders find Dr. LeGear's Antiseptic Powder a splendid preparation. Put up in sifter-top cans. Easy to apply—simply dust on.

Small can-----\$ .30  
Large can-----\$ .60

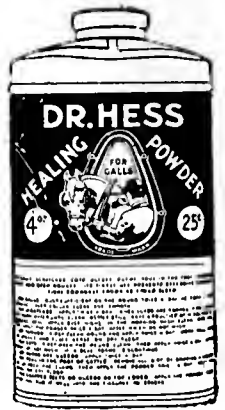


## \*Dr. Hess Healing Powder

An Antiseptic Treatment for Open Wounds and Abrasions. For veterinary use it is a recognized remedy for galls, cuts, thrush, mud sores, burns, wire cuts, ulcers, foul in the feet, fistula, chapped teats and surface wounds of every description. It also prevents proud flesh. Being a powder, stable dirt and dust will not stick to it.

Put up in handy adjustable, sifting-top can.

10-oz. can -----\$0.50  
4-oz. can -----\$ .25



DR. HESS UDDER OINTMENT—Especially prepared for the treatment of injuries and congestion of the udder and teats. Penetrating, soothing, healing. Large handy can, 50 cents.



UDDER HELP is the ideal all-purpose ointment for livestock. Its healing, antiseptic properties make it useful in all cases, for cuts, sores, bruises, cracked or chapped teats, treating non-contagious garget. Use freely to massage sprained or stiff muscles and joints. 8-oz. tube, 50c; 1-lb. can, 90c; 5-lb. can, \$4.25.

\*McCLELLAN'S UDDER BALM—A soothing, penetrating ointment for many affections of the bag, such as Bunches, Caked Bags, Cuts, Sore Teats, Chapping and Inflammation. 10-oz. cans-----\$0.60

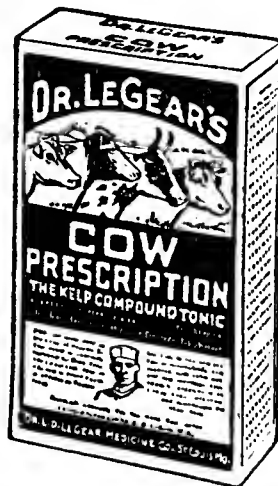
PRATT'S BAG OINTMENT-----\$0.50

## Pratts

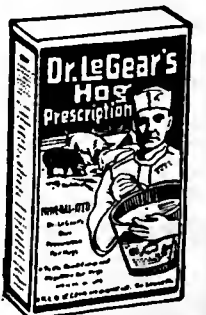
## Cow Tonic

This splendid tonic is made specially for cows. It contains no filler and no antimony, arsenic or dangerous minerals. Mixed with the feed it helps the digestion, regulates the bowels, tones up the reproductive system, helps prevent abortion, costs little and pays you big profits. Absolutely guaranteed. Try it-----\$ .50

DR. LEGEAR'S COW PRESCRIPTION is scientifically balanced to make an efficient tonic, appetizer and conditioner for milch cows, heifers and calves. 2 lb., 50c.



DR. LEGEAR'S HOG PRESCRIPTION—A tonic and conditioner. It thus aids assimilation. The advantage of this powder when fed with the slops or in a self-feeder is that it does not throw the hogs off their feed. It furnishes the suckling sows the necessary minerals thereby giving the pigs the right start during the first 6 weeks of their life. A pig should have these minerals to facilitate proper growth and get him ready for the market in the fall. 60c size; 25-lb. pkg. \$3.50.



MILK BOTTLE CAPS—Will fit any standard milk bottle. 30c per lb.; 10 lbs. \$2.75.

BUTTER CARTONS—85c per 100, weight 3 lbs.; \$7.50 per 1,000, weight 30 lbs.

BUTTER PAPER—For wrapping 1-lb. moulded butter. 35c per lb.; 3 lbs., \$1.00.

FLOWERED SULPHUR—For feeding with salt, etc. 1 lb., 10c; 10 lbs., 75c; 100 lbs., \$5.00.

EPSOM SALTS—Well known cathartic. Bowel regulator for stock and poultry. 1 lb., 10c; 3 lbs., 25c; 14 lbs., \$1.00; 100 lbs., \$4.50.



Poultrymen, Dairymen, Rabbit Breeders, Farmers

Use and Recommend

B-K

Because it is absolutely dependable in helping to prevent the spread of infectious diseases, and because it is so inexpensive to use. They know it is a powerful non-poisonous disinfectant, easy to apply—that has proved its efficacy as a germ killer for twenty years.

You, too, will find it helpful to use B-K to prevent the spread of infectious diseases. Full directions come with every bottle.

4 oz., 30c; 10 oz., 50c; 1 qt., 90c; 1 gal., \$2.00; 5 gal., \$8.50.

B-K Powder

B-K in powder form, reduces the expense of shipping it around the country. It is of course not quite so convenient to use as in the liquid form. Full directions for its use come with each bottle. 9 1-3 oz- bottle, 75c; 1 3-4 lb. bottle (makes 3 gallons of 3½ per cent sodium hypochlorite solution), \$1.50 each, postpaid.



\*McClellan's  
N. I. (Nox Infecto)  
(Sodium Hypochlorite Solution)

McCLELLAN'S

"N~I"

NOX INFECTO

Disinfectant Bleacher  
Deodorant Cleanser  
Antiseptic Purifier

Active Ingredients  
Sodium Hypochlorite.....5.62  
Inert Ingredients......94.38  
Total 100%.....100.00

From the Laboratories of  
C.U. McCLELLAN CORP.  
LOS ANGELES, CALIFORNIA  
NET CONTENTS

McClellan's N. I. is a sodium hypochlorite solution. It is a non-poisonous but powerful sterilizer, deodorant, disinfectant and antiseptic, recommended for hospitals, dairies, schools, depots, bottling plants, poultry ranches, etc.

Great household purifier, cleanser, deodorant germ destroyer.

Non-poisonous, colorless, leaves no odor. Circular on request.

12-oz. bottle.....\$0.50  
1-qt. bottle......90  
1-gal. bottle..... 2.00  
5-gal. bottle..... 8.50

\*Sterilac



Every poultryman should have available a good disinfectant and germicide. Numberless times a disinfectant and germicide will save an entire flock from colds—roux—and various other diseases. If a bird becomes infected, place it apart from the rest of the birds and fight actively against the infection.

STERILAC is the most powerful and the most economical germicide on the market. One ounce of Sterilac makes 60 gallons of disinfectant. It should be used in more powerful mixtures for germicidal purposes. Our free booklets, "Sterilac for the Poultryman," "Sterilac for the Dairy," and "Sterilac in the Home," give full information on its use. No poultryman or dairyman should be without this in his home, poultry and barns. It materially increase your profits.

2-oz. bottle.....\$ 1.00  
½ pound..... 2.50  
1 pound..... 4.50  
5 pound pkg..... 16.75

DRENCH

and DIP "Black Leaf 40" With

Michigan State College says, "Drenching with Copper Sulphate (commonly known as blue vitrol) and 'Black Leaf 40' will keep stomach worms in sheep under control and aid materially in controlling tape worms." Also the United States Department of Agriculture states: "A 40% solution of nicotine sulphate has replaced to a large extent snuff or powdered tobacco for making a copper sulphate solution containing nicotine" (for sheep).

"Black Leaf 40" Always Dependable

Always uniform in strength, "Black Leaf 40" supplies nicotine for all uses. This is of vital importance where used for internal dosage. As Ohio State University says: "Control stomach worms and produce more meat and wool from the same sheep." When used as a dip "Black Leaf 40" is effective against sheep tick, lice and scab. More information given freely.

DRENCHING SHEEP to control worms

For Sale by

1-oz. bottle.....	\$ .35
5-oz. bottle.....	1.00
1-lb. bottle.....	2.25
2-lb. can.....	3.25
5-lb. can.....	5.85
10-lb. can.....	9.85

Bird Cage Supplies

Feed Cup, Crystal. Open or closed top, each.....	.15
Non-breakable Feed Cups.....	.25
Bird Nests, Hendryx.....	.15
Bird Nests, Lindemann.....	.10
Nesting Hair.....	.10
Perch Stock, per foot.....	.10
Leg Bands. each.....	.01
Cage Swings.....	.10
Spratt's Mite Traps.....	.25
Canary Bath House, each.....	.75
Egg Food Cup, each.....	.05
Opal Bath Tubs, 4½ inches, each.....	.10
Opal Bath Tubs, 5¼ inches, each.....	.15
Wall Brackets, nickel, 12 inches, Style Q, each.....	.20
Wall Brackets, brass, 12 inches, Style I, each.....	.25
Cage Springs, Medium, No. 16, each.....	.15
" " Small, No. 145, each.....	.10
No. 282, Brass Chains and Springs, each.....	.30
Feed Cup, Opal, Open or Closed Top, each.....	.15

Fish Foods

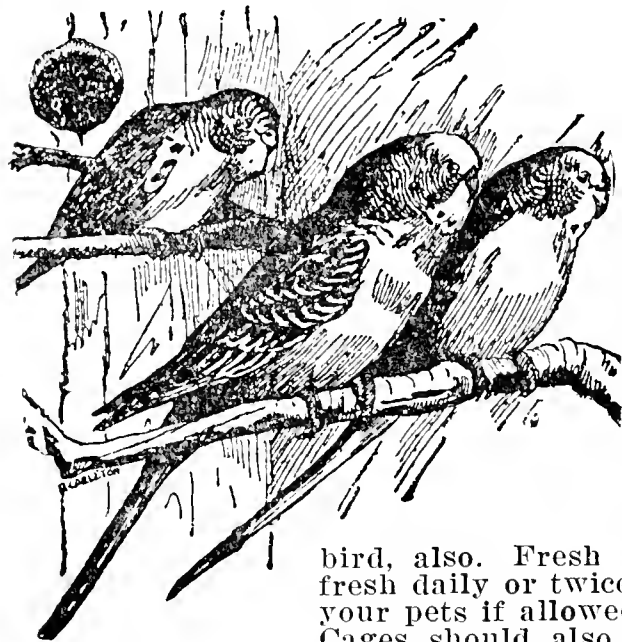
Spratt's Wafer.....	\$0.08
Spratt's Granulated.....	.10
Zeke Turtle Food.....	.10
Spratt's Ant Eggs.....	.25

We carry a complete stock of BIRD CAGES and STANDS and will quote you prices upon request.

Gold Fish

COMMONS — COMETS — FANTAILS

Write for Prices



# Bird Feed and Remedies

## CARE OF BIRDS

The care of birds of all kinds is extremely simple. Proper food, plenty of fresh water, absolute cage sanitation—and your bird will live its allotted life. Care should of course be used to see that birds are not placed in draughts. Cage birds are not accustomed to draughts and cannot endure them without developing colds and often pneumonia.

The dealer from whom you purchase your bird is the logical party to tell you what to feed it and how to take care of it—and you should be sure to ask for this information.

Cage sanitation implies a daily change and cleaning of the cage. For the smaller birds, sand should be kept in the bottom of the cage, and this sand should be changed daily. Parrots should have grit in the bottom of their cage, and this should be changed daily. If you use a litter in the bottom of the cage, we suggest that a small cup of grit be made available for the

bird, also. Fresh water is essential. All birds must have water and it should be furnished fresh daily or twice a day. Birds should be kept free from mites, lice, etc. These pests will kill your pets if allowed to breed without disturbance. Mite powders applied to the birds are good. Cages should also be freed either with scalding water or sprayed with Flyrol. For prompt service and sufficient postage for delivery see page 1.

## Satex Mixed Bird Seed



A blend of the finest seeds to be found on the market double recleaned in order to remove all foreign particles and dust, containing Sicilian Canary, Bird Rape and Millet, mixed in the proper proportions for your bird's health and song. Each package is packed with bird exercise ball.

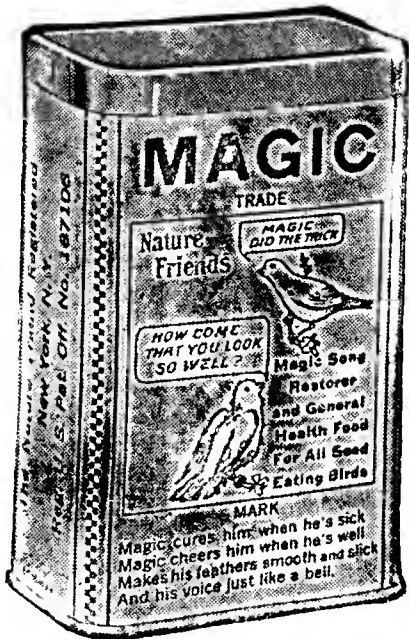
- 1-lb. package with exercise ball.....\$0.15
- Postpaid......25
- Love Bird Mixture: per lb......10
- Sicilian Canary Seed: per lb......10
- Hemp: per lb......10
- Maw or Poppy Seed, per lb......40
- Millet, per lb......10
- Bird Rape, per lb......15
- Sunflower Seed, per lb......15

## Magic Song Restorer

### THE IDEAL SONG AND HEALTH FOOD

A mixture which we are glad to recommend to our customers as producing the best results. Containing more expensive ingredients than other song restorers. Contains egg flakes unexcelled for young birds.

- 1¼-oz. pkg.....\$ .10
- 3½-oz. pkg......25
- 5 -oz. pkg......35



## Philadelphia Bird Food Co.



- Bird Manna, each, 15c; 2 for.....25c
- Red Gravel, small size.....15c
- Red Gravel, large size.....25c
- Silver Gravel, small size.....15c
- Silver Gravel, large size.....25c
- Mocking Bird Food.....40c
- Bird Bitters.....25c
- Song Restorer Drahotas.....15c
- Mite Powder for Birds.....25c
- Nesting Hair in boxes.....10c
- Nesting Food, box.....25c
- Orange Color Food.....25c
- Moulting Pepper.....25c

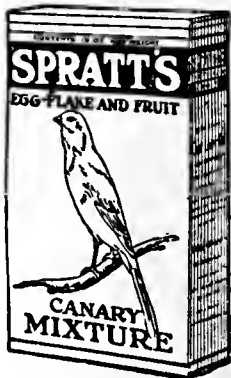


## French's Bird Feeds and Remedies

- French's Mixed Bird Seed.....12c
- French's Gravel.....10c
- French's Bird Ointment.....25c
- French's Bird Charcoal.....10c
- French's Parrot Medicine.....25c
- Burnett's Bird Gravel.....18c

## Spratt's Bird Remedies

- Spratt's Egg-Flake and Fruit, 1-lb. pkg.....25c
- Spratt's Mixed Bird Seed, pkg.....25c
- Spratt's Sing Song, per tin.....15c
- 2 for.....25c
- Spratt's Orange Color Food, pkg.....25c
- Spratt's Moulting Food, pkg.....25c
- Spratt's Cod Liver Oil Cage Bird and Nestling Food, pkg.....15c
- Spratt's Finch Mixture.....25c
- Spratt's Parrot Mixture.....20c
- Spratt's Parrot Tonic.....25c
- Spratt's Mocking Bird Food.....25c



### CUTTLE FISH BONE

- Oz.....10c
- Lb.....65c

## Haller's Bird Remedies



- Scaly Leg Oil.....25c
- Feather Restorer.....25c
- Health Food.....25c
- Bird Cage Wash.....25c
- Bird Bath.....25c
- Bird Tonic.....25c
- Bird Nesting.....10c
- Lice Powder.....25c
- Moulting Food.....25c
- Bird Bitters.....25c
- Nesting Food.....15c
- Poppy Seed.....25c
- Hemp and Pepper.....10c
- Ha-Ha Song Feed.....25c
- Health Grits.....10c
- Burnett's Louse Powder.....25c
- Burnett's Bird Tonic.....15c

NOTE—We can get any style leg band you desire and numbered up to 1,000. It will take from one to two weeks to fill these special orders. 25% of amount of order required when sending in order. Mail us sample or picture of band you desire if not listed in this catalog.



# Sergeant's

## \*Dog Medicines

Nerve Sedative (Run-Fit) Medicine	\$1.20
Special (Distemper) Medicine	1.00
Mange Medicine	.50
Mange Medicine (no tar ordor)	.75
Condition Pills	.50
Sure Shot Capsules for Worms	.50
Sure Shot Liquid for Worms	.50
Tape Worm Medicine	.50
Arsenate and Iron Pills	.50
Canker Wash, for the Ear	.50
Mouth Wash (for the Mouth)	.50
Pepsin Tablets, for indigestion	.50
Intestinal Astringent (Diarrhoea) Medicine	.50
Expectorant (Cough Medicine) for Colds	.50
Diuretic (Rheumatic) Pills	.50
Dog Rub, a liniment	.50
Eye Wash	.50
Constipation Capsules	.50
Carbolic Tar Soap	.25
Skip Flea Soap, for Fleas and Lice	.25
Skip Flea Powder	.25
Puppy Worm Capsules	.50
Shampoo Soap	.25
Disinfectant, 4-oz. bottle	.25

## McClellan's Dog Shampoo

McClellan's Dog Shampoo-----\$0.50

## \*McClellan's Flea Powder

McClellan's Flea Powder is entirely different from all other flea powders on the market for the reason we have perfumed it with a very delicate perfume so after using on the animals it will leave a very pleasant odor instead of the smell of disagreeable chemicals as most all other flea powders leave. We have also used every precaution in selecting a powder that would be non-injurious to the animals as most dogs and cats clean themselves often. 3-oz. cans, 50c.

# Sergeant's DOG FOOD

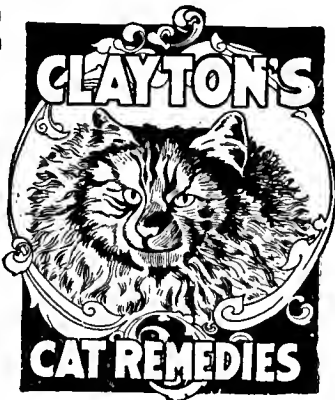
Sergeant's Dog Bread—Lb., 15c; 2 lbs., 25c; 100 lbs., \$10.

## Red Chain Dog Nuggets

A perfectly balanced food that is not only a complete ration but is so economical that it is easily afforded by any dog owner. Composed of such ingredients as dried ground meat, dried skim milk, ground wheat, cornmeal, steam cooked oatmeal, corn germ oil meal, cod liver meal. Compressed into nugget form, they supply food in a more natural form. Lb., 10c; 3 lbs., 25c; 25 lbs., \$1.75; 100 lbs., \$5.00.

## \*Clayton's Cat Remedies

Cat Mange Remedy	\$0.60
Cat Distemperine Tablets	.60
Cat Tonic Catnip Condition Tablets	.60
Cat Blood Purifying and Cooling	.60
Cat Laxative Tablets	.60
Cat Digestive Tablets	.60
Cat Worm Tablets	.60
Cat Tape Worm Expeller Tablets	.60
Cat Vermifuge (liquid)	.60
Cat Canker Lotion Tablets	.60
Cat Fit Tablets	.60
Cat Diarrhoea Tablets	.60
Cat Wash and Disinfectant	.25
Cat Mouth Wash	.60
Cat Eye Lotion	.60
Cat Cough Remedy	.60
Cat Soap	.25



## Free Dog Book

Polk Miller's famous book on the care, feeding and breeding of dogs will be sent free to all dog owners and dog lovers.

## Dr. LeGear's Dog Remedies

Contains the Most Effective Ingredients Known to Modern Veterinary Science



Tape Worm Tablets	\$ .50
Mange Prescription	.50
Tonic Condition Tablets	.50
Kennel Disinfectant	.50
Flea and Lice Powder	.25
Flea and Shampoo Soap	.50
Laxative Tablets	.50
Pepsin Compound Tablets	.50
Special Tablets (for reducing fever)	1.00
Nerve Sedative Tablets	1.00
Eye Lotion	.50
Cod Liver Oil Concentrate Tablets	50c and \$1.00
Round and Hook Worm Capsules for small dogs	.50
Round and Hook Worm Capsules for Medium-Large Dogs	.50

## \*Delcreo Dog Remedies

Delcreo Tonic and Conditioner	\$ .75
Delcreo Vermifuge	.60
Delcreo Laxative	.35
Delcreo Distemper	1.50
Delcreo Worm Tablets	.65
Delcreo Worm Tablets, toy dogs	.65

## \*Q-W Dog Remedies



Q-W Flea Powder	\$1.00
Q-W Mange Soap	1.00
Q-W Flea Oil and Coat Grower	1.00
Q-W Eye Salve	1.00
Q-W Diarrhoea and Dysentery Tablets	1.25
Q-W Fit and Sedative Tablets	1.25
Q-W Red Blood Builder	1.00
Q-W Constipation Pills	1.00
Q-W Ear Canker Lotion	1.25
Q-W Worm Capsules	.65
Q-W Healing Salve	1.00

## \*Glover's Dog Remedies

Glover's Nerve Sedative	\$0.65
Glover's Sore Foot Medicine	.65
Glover's Diarrhoea Medicine	.65
Glover's Vermifuge	.65
Glover's Sulphur Tablets	.65
Glover's Medicated Soap	.25
Glover's Condition Pills	.65

## \*Clayton's Dog Remedies

Kill Flea Powder	\$0.35
Kill Flea Soap	.25
Ceoline Dog Soap	.25
Condition Pills	.60
Puppy Tonic	.60
Disemperine	.60
Distemperine Tablets	.60
Worm Bullets	.60
Worm Pills	.60
Diarrhoea Tablets	.60
Blood Pills	.60
Vermifuge Capsules	.60
Vermifuge Liquid	.60
Tape Worm Expeller	.60
Mange Medicine	.60
Digestive Tablets	.60
Laxative Pills	.60
Canker Lotion	.60
Fit Remedy	.60
Skin Medicine, toy dogs	.60
Cod Liver Oil with Hypophosphates of Lime & Soda	1.00



## COMPLETE STOCK OF DOG SUPPLIES

Blankets, Sweaters, Collars, Leashes, Harness, Muzzles, etc. Should you be interested in any of these items, we would be glad to mail you a price list.

VEGETABLE PLANTING SCHEDULE

Name of Vegetable	Quantity required for 100 feet of row	Quantity required for one acre	Distances apart in inches		Depth of planting in inches	Time of Planting	Mature in days—except as noted
			Rows	In Rows			
Asparagus Plants	60 to 80	9,680		15 to 20	8 to 10	January and February	1 year
Beans, Snap	1 lb.	30 to 60 lbs.	36	3 to 4	1	Mar. to May; Aug. to Oct.	40 to 60
Beans, Pole	1/2 lb.	15 to 20 lbs.	20	12 to 15	1	Mar. to May; Aug. to Oct.	50 to 80
Beans, Lima, Bush	1 lb.	30 to 60 lbs.	36	3 to 4	1	Mar. to May; Aug. to Sept.	60 to 90
Beans, Lima, Pole	1/2 lb.	15 to 20 lbs.	36	12 to 15	1	Mar. to May; Aug. to Oct.	60 to 80
Beets	2 oz.	4 to 5 lbs.	12	1 to 3	1 to 2	Feb. to May; Sept. to Oct.	60 to 80
Broccoli	1/4 oz.	1/4 lb.	30	12 to 18	1/2	April to July	112 to 126
Cabbage, Early	1/4 oz.	1/4 lb.	24 to 30	16 to 24	1/2	October to December	90 to 130
Cabbage, Late	1/4 oz.	1/4 lb.	24 to 36	12 to 15	1/2	June and July	90 to 130
Cabbage Plants	80 to 100	9,680	24	12 to 15	2 to 4	Feb. to May; Aug. to Sept.	75 to 120
Carrots	1 oz.	3 to 4 lbs.	15	1 to 2	1/2	Feb. to Apr.; Aug. to Oct.	60 to 110
Cauliflower	1/4 oz.	1/4 lb.	20	10 to 12	1/2	Feb. to Apr.; Aug. to Oct.	100 to 125
Celery	1/4 oz.	1/4 lb.	18	4 to 8	1/8	August to October	120 to 150
Collards	1/2 oz.	1/2 lb.	20	10 to 12	1/2	September to May	100 to 125
Corn, Pop	1/2 lb.	6 lbs.	36	12 to 12	1	March to July	90 to 100
Corn, Sweet	1 lb.	7 to 10 lbs.	24	24 to 36	1 to 2	Feb. to April; August	60 to 75
Cucumber	1/2 oz.	1 to 2 lbs.	48	36 to 48	1	March to May; August	60 to 80
Egg Plant Seed	1/8 oz.	1/4 lb.	24 to 30	18 to 24	1/2 to 1	January to July	100 to 140
Egg Plant Plants	50 to 65	7,260	24	18 to 24	2 to 3	March to July	100 to 150
Endive	1 oz.	1/2 to 1 lb.	18	4 to 6	1/2	Feb. to April; August	85 to 175
Horseradish Roots	100	10,000	24	12 to 18	3 to 4	February and March	1 to 2 years
Kale	1 oz.	1/2 to 1 lb.	15	2 to 3	1/2	October to March	85 to 125
Kohlrabi	1/2 oz.	1 to 2 lbs.	15	2 to 4	1/2	September to March	60 to 80
Lettuce	1/2 oz.	1/2 to 1 lb.	12	4 to 6	1/2	September to March	60 to 90
Muskmelon or Cantaloupe	1 oz.	1 to 2 lbs.	48 to 60	Hills 36	1	March to May; July to Nov.	100 to 135
Mustard	2 oz.	3 to 5 lbs.	24 to 30	10 to 12	1/4	Feb. to May; July to Nov.	40 to 60
Okra	1 oz.	1 to 3 lbs.	12 to 12	1 to 2	1/2 to 1	March to July	90 to 125
Onion Seed	300	6 to 12 bu.	15	3 to 4	1/2 to 1	October to April	125 to 150
Onion Plants	2 lbs.	3 to 5 lbs.	12 to 15	2 to 3	2 to 3	January to May	125 to 150
Onion Sets	1/2 oz.	3 to 5 lbs.	12 to 15	1 to 2	1 to 2	Jan. to Apr.; Aug. to Sept.	75 to 100
Parsley	1/2 oz.	3 to 5 lbs.	12 to 15	3 to 4	1/4	September to May	90 to 110
Parsnips	1 to 2 lbs.	30 to 60 lbs.	18 to 24	1 to 2	1/2 to 1	Feb., March and September	125 to 150
Peas	1/2 oz.	1/4 lb.	36 to 48	15 to 18	3 to 4	Jan. to Mar.; Aug. to Nov.	40 to 75
Pepper Seed	80 to 100	9,680	24	15 to 18	1/2	December to March	100 to 140
Pepper Plants	5 to 6 lbs.	600 lbs.	60 to 72	12 to 15	2 to 3	March to June	90 to 130
Potato, Irish	65	10,000	36 to 48	12 to 15	6 to 8	February to April	80 to 125
Potato, Sweet, Slips	1/2 oz.	1 to 2 lbs.	60 to 72	60 to 72	2 to 3	March to July	125 to 150
Pumpkin	2 oz.	8 to 10 lbs.	36	1 to 1 1/2	1	March to July	100 to 150
Radish	35	4,000	36	1 to 2	1/4 to 3	September to May	20 to 50
Rhubarb Roots	1 oz.	2 to 5 lbs.	15	1 to 2	1/2 to 4	January, February, March	1 to 3 years
Salsify	1/4 lb.	10 to 25 lbs.	12	1	1 to 1/2	February to May	115 to 175
Spinach	1 oz.	2 to 3 lbs.	24	24	1	Feb. to April; Sept. to Nov.	50 to 70
Squash, Bush	1 oz.	2 to 3 lbs.	36 to 48	36	1	March to September	60 to 80
Squash, Late	1/8 oz.	2,725	36 to 48	36	1	April to August 15th	100 to 140
Tomato Seed	50 to 65	1 to 2 lbs.	15 to 24	18 to 24	1/2 to 1	December to July	100 to 140
Tomato Plants	1 oz.	1 to 3 lbs.	60 to 72	1 to 3	1/4 to 1	April and May	85 to 100
Turnips	1/2 oz.	1 to 2 lbs.	15 to 24	1 to 2	1/4 to 1	Feb. to May; July to Nov.	50 to 80
Watermelon	1/2 oz.	1 to 3 lbs.	60 to 72	1 to 2	1	March to May	115 to 150



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Something *NEW* in Feeds!

# REDCHAIN

## FEEDS

*The SUPERIOR Feeds*

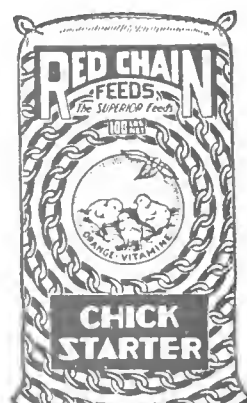
We now offer you this Celebrated Poultry Mash in  
"NUGGET" Form! Try it today!

 Less Waste		 Safe
More and Better		Economical
Eggs		Profitable
		

The Economy of this feed has been tested and proven in the large Experimental Farm of the Universal Mills—your assurance of profitable egg production from its use... Try it today, you'll appreciate the difference"



Distributed by  
**SATEX SEED CO.**  
529 S. FLORES  
SAN ANTONIO, TEXAS



RED CHAIN FEEDS ARE SUPERIOR FEEDS